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# The CHEMIST AND DRUGGIST

RETAILER - WHOLESALER - MANUFACTURER

AUGUST 7, 1948

## NOW BEING NATIONALLY ADVERTISED

An attractive looking preparation and one of the famous WRIGHT'S products—it is now in unrestricted supply

masses of lather

It's right for both of us!

Every member of the family should use this delightful soapless shampoo with its invigorating coal-tar freshness. Scientifically medicated. Economical in use.

Price 2/- Including Purchase Tax.

MADE BY THE MAKERS OF FAMOUS WRIGHT'S PRODUCTS

Soapless-rather!

**Wright's  
COAL TAR SOAPLESS  
LIQUID SHAMPOO**

WRIGHT LAYMAN  
& UMNEY LTD.

44-50 SOUTHWARK ST.  
LONDON, S.E.I.

Tel: HOP 4021 (10 lines)

# 'Benadryl'

## *in allergic conditions .*

This potent histamine antagonist and antispasmodic affords relief in such allergic conditions as hayfever, urticaria, contact dermatitis and serum reactions. Some beneficial effect usually follows within a few hours of oral administration.

### **'BENADRYL' CAPSULES**

'Benadryl' is available in capsules of 50 mgm., or of 25 mgm. for administration cases responding to a smaller dosage, and for older children.

(Supplied in bottles of 50 and 500 capsules)

### **ELIXIR 'BENADRYL'**

For infants and children Elixir 'Benadryl,' a palatable preparation containing 10 mgm. of Benadryl per fluid drachm, may be prescribed.

(Supplied in bottles of 4 and 16 fluid ounces)

### **'BENADRYL' PARENTERAL**

In the case of acute allergic conditions requiring rapid action, 'Benadryl' can be given parenterally in a solution containing 10 mgm. per cc. This method of administration is most valuable in serum reactions, severe angio-neurotic oedema, acute reactions following insect-bites and bee-stings, acute urticaria and allergic reactions after administration of penicillin, liver extract, insulin etc.

(Supplied in 10 c.c. rubber-capped vials)

## **PARKE, DAVIS & COMPANY**

Offices & Laboratories: STAINES ROAD, HOUNSLOW, MIDDLESEX

Inc. U.S.A., Liability L

# How 'Elasto'—It Sells on Sight!

*It's advertised as a Chemist's line*



**PLEASE NOTE**

**22/- Pack**

(one bottle free)

**GAIN AVAILABLE**

see prices below

**6 D.** **PROFIT ON EVERY SALE !**

Elasto Advertising Is Nation-wide and Consistent. An ever-increasing demand for this product is being created at your very door; a slight effort on your part will bring this new and profitable business to your counter. A showcard or a few 'Elasto' cartons displayed in your window will bring most gratifying results. You can recommend 'Elasto' with confidence for all circulatory disorders including Varicose Veins, d Leg, Skin Troubles, Rheumatism and poor General Health. A tablet Remedy, easy to handle and reliable.

recommend 'Elasto'—and a satisfied customer will recommend You !

RETAIL (Including Tax)

5/6 per bottle (one month's supply)

22/- five bottles (Including one free)

P.A.T.A.

WHOLESALE (Including Tax)

48/- per dozen

192/- per dozen

**e NEW ERA TREATMENT CO., LTD.**  
**CECIL HOUSE, HOLBORN VIADUCT, LONDON, E.C.1**

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# MEDICAL PRODUCTS

being extensively publicised to the medical profession

## ELITONE

*a palatable elixir of nikethamide.*

## EKAMMON TABLETS

*for safe and rational salicylate therapy.*

## PLACADOL

*a musculotropic and neurotropic antispasmodic.*

## PLACADOL SED.

*a dual antispasmodic and sedative.*

## STERAMIDE - Ag.

*a chemotherapeutic and antiseptic solution.*

## STERAMIDE OINTMENT

VITAMINISED

*antibacterial and healing properties.*

## VIACUTAN

*bactericidal solution with marked healing properties.*

*Adequate stocks are available and detailed literature will be supplied on request.*

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6 HENRIETTA PLACE · LONDON · W.I

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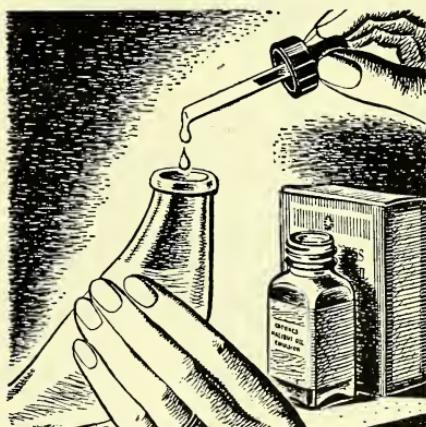
Baby's getting  
Vitamins A & D  
this new, nice way!

## CROOKES HALIBUT OIL EMULSION

JUST three drops in Baby's milk four times a day. That's all! It ensures Baby getting the right amount of those two essential vitamins 'protective' A to give resistance to infection, 'sunshine' D to build up sturdy bones and strong teeth. And Baby really doesn't notice those tiny drops. No teaspoonfuls, no trouble now. This new emulsion is milky-bloured, mixes in milk without the slightest trace of oiliness.

Each bottle of Crookes Halibut Oil Emulsion is supplied with a dropper, and contains enough for approximately 3-weeks' supply. Orders for Bonus parcels can now be executed immediately.

**Mixes unnoticed  
in the milk**



### BONUS TERMS

12 x 15 c.c. Vials @ 3/6 Retail £2. 2.0  
Less 25% 10.6

Less 10%

1.11.6

3.2

£1. 8.4

### BONUS

1 x 15 c.c. Vial.  
Retail Value 3/6.



THE CROOKES LABORATORIES LIMITED • PARK ROYAL • LONDON • N.W.10

# Holidays

are busy days



# for Alka-Seltz

Mr. Gay Dog and Mr. Happy Kangaroo now joined the Alka-Seltzer Sales. They are well down to their job, appearing regularly in the big national and provincial dailies and magazines, building up holiday demand for Alka-Seltzer. They are creating new business; are you getting your share?

**Display—recommend—SELL**

The unique Alka-Seltzer combination of acetyl-salicylic acid, sodium bicarbonate and citric acid is just what is needed for a holiday. This refreshing drink gives quick relief from the headaches, indigestion, muscular aches and pains which annoy 'upset conditions' which so often spoil holidays. This year, with our special topical advertising, your Alka-Seltzer can break all records.

Joints and muscles stiff & sore?

Alka Seltzer... What's the score?

For the United States, Australia, Canada and elsewhere, there is nothing like Alka-Seltzer. 22 million Americans take it for headaches, aches and upset conditions. First, Alka-Seltzer gives instant relief from aches and pains. Next, it helps to restore normal joint action. And, thirdly, it relieves upset conditions of all kinds. It's the answer to your aches and pains. Bring Alka-Seltzer along.

Write for trade price list, attractive show material and display discounts to Don S. Momand Ltd., 57 Albany Street, London, N.W.1. Sole Distributors for Miles Laboratories Ltd.

P.A.T.A.

Holiday headache? stomach uneasy?

Alka Seltzer, bright & breezy!

When you're feeling tired or overexcited, or when you have a headache and indigestion or other holiday upset conditions, Alka-Seltzer gives you relief — fast! And it's delicious! Bright & breezy! Alka-Seltzer relieves the aches and pains of all kinds that spoil your holiday fun.

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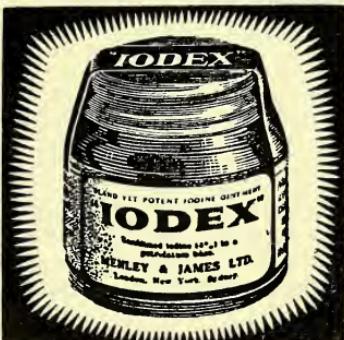
# The BLAND, SOOTHING Iodine Ointment

There is no form of iodine more bland than Iodex'. Even on open wounds and sensitive faces it is soothing, inflammation-reducing, and resolvent. Its wide field of usefulness has been recognised by doctors for over thirty years, and it is regularly prescribed for such conditions as enlarged glands, joint and muscle pains, minor uries, and certain parasitic skin affections.

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IODINE OINTMENT

ENLEY & JAMES LTD.  
3 Coldharbour Lane, London, S.E.5.



1-OZ. JARS

Trade Price

18/9 per dozen, plus 6/3 tax

Retail Price

2/9 each, inclusive of tax

Supplied also in 4-oz. Jars

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DIPHENAN B.D.H.

FOR OXYURIASIS

GENTIAN VIOLET PILLS B.D.H.

WHICH IS PREFERRED?

Opinions on the most satisfactory treatment are divided; some authorities prefer diphenan for its absence of toxicity, others advocate gentian violet alone

or, in resistant cases, alternated with diphenan. But, whichever treatment is chosen, the use of the B.D.H. preparation ensures optimum therapeutic effect.

# The Brand Name

# Ucal

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THE UNITED CHEMISTS ASSOCIATION LTD. CHELTENHAM  
AND IMPLIES THEIR GUARANTEE



## BRONCHIAL LOZENGES

An attractively presented, ready selling line, now available in ever-increasing quantities.

'UCAL' Bronchial Lozenges are old favourites of the public for coughs and colds of the chest—a well-advertised, popular line which you can order freely and safely.

This is a Guaranteed Product  
sold only through Ucal Chemists



# AMMONIA

As Specialists over many years, we offer the best possible value in packed Ammonia. This smartly packed product is offered to all Chemists, and a good variety of labels is available, specimens of which will be submitted on request.

Write for terms now.

FR.13

**THORNTON & ROSS**  
Manufacturing Chemists  
LINTHWAITE • HUDDERSFIELD

## Selling the truth

THE Medical profession is giving yeast its true status as an essential source of Vitamin B and proteins—as a food and not a mere pick-me-up. Yestamin advertising helps to spread this truth and the nation-wide sales of Yestamin show that daily yeast is recognised as an important contribution to the health value of a restricted national diet.

In Bottles	to retail at	Trade Prices
100 TABLETS	1/6	12/3 PER DOZ.
300 TABLETS	4/-	33/- PER DOZ.

Less 5% Cash in 14 days

Vitamin B.1 ..... 2.10 mgms. per oz.  
Riboflavin (B.2) ..... 1.45 mgms. per oz.  
Niacin ..... 9.50 mgms. per oz.

## Yestamin DAILY YEAST

THE ENGLISH GRAINS CO. LTD. BURTON-ON-TRENT

## POLAWAX

A NEW OIL-IN-WATER  
EMULSIFYING WAX

A stearyl alcohol of enhanced polar properties containing no anionic auxiliary emulsifier of t soap or sulphonated/sulphated fatty alcohol type. Stable to high temperatures itself, its emulsions do not alter in pH value on autoclaving.

**CRODA LIMITED**  
CRODA HOUSE, SNAITH, GOOLE, YORKSHIRE  
London Office : 24 HAYMARKET, S.W.

## VIRDOX<sup>RE</sup> nutrition

Rewards Regular Users with Extra Energy. VIRDOX Powder in 3/6 lbs. VIRDOX Tablets in 2/3 tins

75 KINGSWAY, LONDON, W.C.1

# From the food of the Gods to



# Theobromine

THE seeds of the cacao tree, the heaven-sent "cacao-quahuitl" of the Aztecs, aptly named *Theobroma* — the food of the gods — by Linnaeus in 1720, is the principal source of the alkaloid Theobromine. This alkaloid, which is also present to a smaller extent in tea, was first discovered in cacao by Woskresensky in 1842; its chemical constitution as 1:3-dimethyl-xanthine, a close relative of caffeine, was established by Fischer in 1882 and confirmed by synthesis in 1897.

As early as 1900 Thomas Whiffen was manufacturing pure theobromine which was isolated in the course of purifying the caffeine extracted from waste tea. Today, however, a different process is used since considerable quantities of crude theobromine are available as a by-product of chocolate manufacture and it is from this that the pure alkaloid and its derivatives are now prepared by Whiffen & Sons Ltd., for use in medicine as valuable diuretics.

# WHIFFENS

*Manufacturers of Fine Chemicals for nearly a century*

WHIFFEN & SONS LTD · FULHAM · LONDON · SW6  
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**A NAME  
and a  
STANDARD**

**"SURE  
SHIELD"**

PRODUCTS



**'SURE SHIELD'  
IODISED THROAT  
TABLETS**

**'SURE SHIELD'  
FRUIT LAXATIVES**

**'SURE SHIELD'  
GLYCERINE of THYMOL  
PASTILLES**

**LOZENGES. PASTILLES.  
TABLETS.**

**IN BULK and ATTRACTIVE PACKS**

**DELIVERIES.** The position is now much improved. Although we are producing to our full capacity we still have to take orders in rotation and are making every effort to maintain an equitable distribution of our PRODUCTS.

**Thos. Guest & Co. Ltd. Manufacturing  
Chemists**  
**Carruthers Street, Manchester, 4**

# MATERNITY PADS REDUCED IN PRICE

The Cellusan Company have pleasure announcing a reduction in price of their popular Maternity Pads. The new prices, which effect forthwith, are as follows:

**SIZES 3 and 4**  
(In packets of 12)

**Trade**  
(per doz. packets)

**SIZE 3  
27/-**

**SIZE 4  
28/6**

**Retail**  
(per packet)

**SIZE 3  
3/-**

**SIZE 4  
3/2**

These Maternity Pads, which have long band ends, are but one of many Cellusan products, particulars of which may be obtained on application to the address below. They conform to the accepted standard of The Association of Sanitary Manufacturers.

a Cellusan product  
**The CELLUSAN Co. Ltd.**  
Essex Rd., LONDON, N.I  
Telephone: CLISSOLD 4761 (4 lines)



# NOW!



## MERITOR BABY POWDER

IN NEW COLOURFUL  
TINS AND DISPLAY UNIT

We introduce another  
addition to the  
MERITOR SERIES  
of Chemists' Sundries—  
**MERITOR  
BABY POWDER**

*Unsurpassed for  
QUALITY  
PRESENTATION  
& PROFIT*

Note these features:—

**THE POWDER** — Smooth, delicately perfumed, anti-septic and soothing.

**THE TIN** — Round, full 3-oz. capacity Attractive design of Pink, Blue and Cream with nursery motif.

**THE DISPLAY  
UNIT** — Strong card with printing to match the tin. Holds 3 tins, occupies only  $7 \times 2\frac{1}{4}$  inches, one unit with a dozen tins.

**THE PRICE** — Allows you to retail at a low figure and take full profit.

Ask our Representative to show you this line

MAW, SON & SONS, LTD. : BARNET : HERTS

## AYRTONS FOR PENICILLIN

### PENICILLIN CREAM

#### No. 1 MAKING SET (The Original) ANHYDROUS

Per Set (to make 6 pots) ... 6/- Penicillin (100,000 units) ... 1/-

#### No. 2 MAKING SET. HYDROUS

Per set (to make 4 pots) ... ... ... ... ... ... 8/-

#### No. 3 DAILY POSTAL SERVICE. Penicillin Cream B.P. freshly made and posted immediately. Per ounce, post paid ... ... ... ... 2/-

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Each tablet 12,500 units — Tubes of 8	... 2/-.	Bottles of 80	... 15/6
" " 10,000 " — " 10	... 2/-.	" 100	... 15/6

### CHLOROCRESOL SOLUTION 0·05% for the preparation of Aurist, Guttæ and Narist PENICILLIN. Each—4 oz. ... 2/- 10 oz. ... 3/- 20 oz. ... 4/-

### PENICILLIN OINTMENT B.P.

1 oz. tubes or jars ... per doz. 16/- 2 oz. jars ... per doz. 30/-

### PENICILLIN EYE OINTMENT. 1 drachm tubes ... ... ... per doz. 10/-

### PENICILLIN LOZENGES B.P. 20's ... ... ... ... per doz. 9/-

### PENICILLIN SNUFF "AYRTON" contains 10,000 units, Calcium Salt per gramme in a mentholised base. Packed in press-cap snuff tins containing 70 grains ... ... ... ... ... ... per doz. 20/-

### PENICILLIN WITH STERILIZED POWDER SULPHATHIAZOLE.

5,000 units Calcium Salt per gramme.  
Each — 5 gramme ... 1/9  $\frac{1}{2}$  oz. ... 4/- 1 oz. ... 7/-

**AYRTON SAUNDERS & CO. LTD. LIVERPOOL**



Sole Distributors for United Kingdom  
Stanwhite Ltd., Parkhouse Wks., London, S.E.5. Tel. 4416

*Big news of something sm...*  
**NEW 10½d TRIAL SIZE**  
*for KOKO Cream Shampoo*

Women will want it because they naturally like to start something new in a small size. Remember these points about this successful always-asked-for again shampoo :

1 It's a Cream Shampoo, in a tube: a trial size for the hair, easy to use, enough for shampoos in a full-size tube, and for a trial size.

2 It's advertised in a new way—as a metic for the hair.



	Small Tube	Large Tube
Wholesaler	4/11 per doz	16/8 per doz
Retailer	5/9 per doz	19/7 per doz
Purchase Tax	1/11 per doz	6/7 per doz
Retail Price	10½d. each	3/- each

*Made only by*

Koko-Maricopas Co. Ltd., 3 Fleet Lane, London, E.C.4  
Makers of the well-known Koko for the Hair



PROPRIETARIES  
SUNDRIES DRUGS  
TABLETS & PILLS

FOR  
CHEMISTS

*Manufacturing  
Chemists*

Office & Works Mansfield Road Derby Telephone 4266 (3 lines) Branch Warehouse Grosvenor St. Ashton-under-Lyne Telephone 2816 (2 lines)

## BOTH Quality and Price

make Silcot Sanitary Towels an excellent selling line

Women who use Silcot towels value their two outstanding features, softness and safety.

The soft cotton wool used in the towels, and the silk knitted covers give them the fullest comfort; the stitched loops give them complete security.

### PRICES

The new prices of Silcot towels, as recently announced, are:—

Size 0	15/9	Trade per doz. pkts.	1/9	Retail per pkt.
1	18/-	"	2/-	"
2	22/6	"	2/6	"
3	27/9	"	3/1	"
4	30/-	"	3/4	"

Vensilla Soluble Towels, size 1, with loops, sell at 14/6 per dozen packets wholesale, and 1/7½ per packet retail. Silcot all-elastic adjustable Sanitary Belts, 12/6 per dozen, plus 4/3 Purchase Tax. Retail price, 1/11 each.



# SILCOT

SANITARY TOWELS

CODONALD AND SON LTD., DAWSON STREET, SALFORD, MANCHESTER, 3

*It's by Pears  
It's new...  
It's different*

# Gloria

Liquid Shampoo

CONTAINING  
OLESTOL



*It's backed by  
one of the most  
powerful advertising campaigns  
in recent years...  
PRESS...  
CINEMAS...  
HOARDINGS...*

- 1 Leaves every single hair perfectly clean.
- 2 Gives hair extra shine.
- 3 Reveals exciting new natural tints in the hair.
- 4 Does not "parch" hair or scalp.
- 5 Leaves the hair healthily supple and so easy to do, right away.

A SUPERIOR SKIN LOTION  
to sell at 2/2 per 3 oz. bott.  
including Purchase Tax

**A**NAESTHETIC  
**A**NTISEPTIC



**DERMAL LOTION**  
(non greasy)

(Showcard available)

Suits women for their hands and for  
after make-up. An excellent after-shave  
lotion for men.

Extra discounts on 3, 6 and 12  
dozen, and a bonus on 12 dozen.



DAMANCY & CO. LTD. MIDD.  
ESTABLISHED 1890

Telephone : BYRon 1440,  
Telegrams : Damancy Ha



## Eau de Cologne and Beauty Aids

MADE IN ENGLAND

R. J. REUTER COMPANY, LTD.  
SLOUGH

# BONUS OFFER STILL AVAILABLE

Don't miss the opportunity  
of **GOOD PROFITS** on this  
quick selling line

## ESOBAN Cream of Calamine

In 4-oz. bottles                    2/9 inc. Tax.

Through all Wholesalers



Show material will be sent direct  
on request.



### SPECIAL BONUS OFFER

14 to the doz. 6 doz. and over  
13 to the doz. 3 doz. and over

**DISCOUNT 33 $\frac{1}{3}\%$**

THON LABORATORIES LTD., 88 UPPER RICHMOND ROAD, LONDON, S.W.15

## 'NORVEX' THE SUPER SANITARY TOWEL

For COMFORT and CONFIDENCE

Manufactured by - - - CROSSKILL'S OF NORWICH

'ANGLIAN'

Surgical Dressings

'NORWICH'

Crepe Bandages

## MILLAMALT *The VITAMIN MALT FOOD*

Sole Manufacturers

With Vitamins

(A. 6,500 I.U., D. 400 I.U.  
per fl. oz.)

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## Compressed TABLET SERVICE

WHOLESALE & EXPORT

Clients' own material operated if desired. Reasonable estimates.

The DALES ASPIRIN AND TABLETING CO. Barrows Lane, STEETON, Yorks.

# ASTHMA

ONE Dō-Dō  
OFTEN GIVES  
RELIEF IN  
30 SECONDS



## Dō-Dō

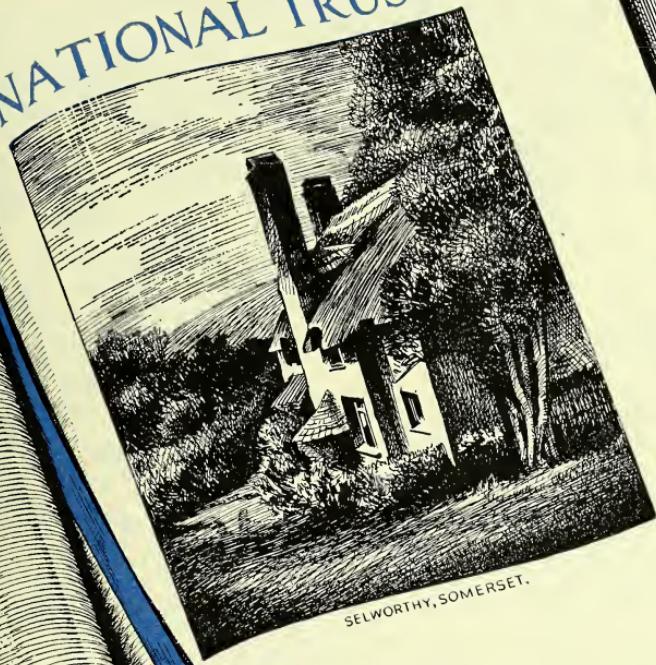
TABLETS



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LABORATORIES LTD

1-3 SMEDLEY ST, LONDON, S.W.8 - MACaulay 3481

NATIONAL TRUST



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*London & Manchester*

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Specialists in VEGETABLE DRUGS, PHARMACEUTICAL CHEMICALS, GALENICALS, COMPRESSED TABLETS, PILLS, PACKED GOODS. ALSO CAPSULES, SUNDRIES DRY-SALTERIES, DISINFECTANTS, ETC. PHOTOGRAPHIC APPARATUS, CHEMICALS & SUNDRIES



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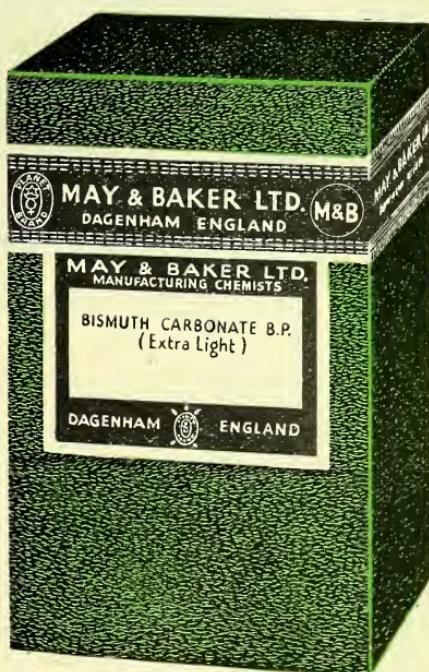
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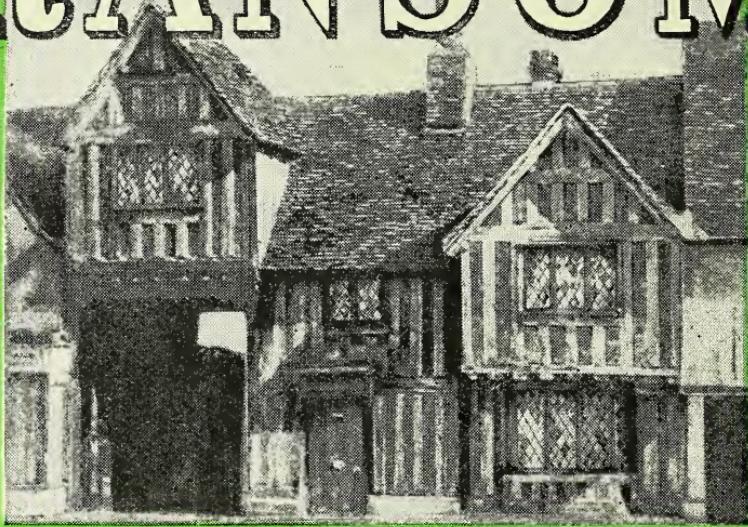
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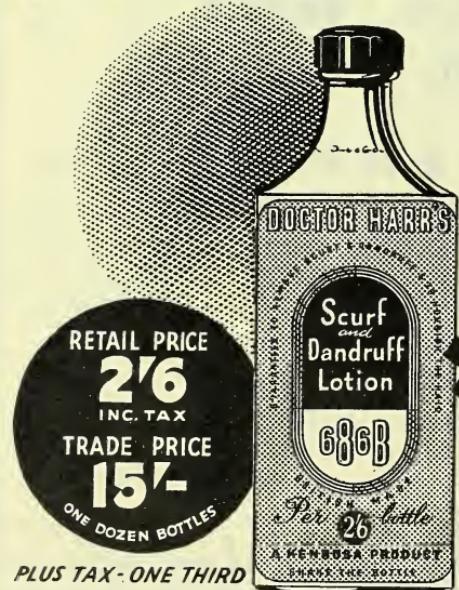
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for RETAILER—WHOLESALE—MANUFACTURER

AUGUST 7, 1948

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## NEWS OF THE WEEK

**New Register of Orthoptists.** — The Board of Registration of Medical Auxiliaries has published an eighth edition (1948) of the Orthoptists' section of the Board's national register.

**Scottish N.H.S. Booklet.** — H.M. Stationery Office has published a thirty-page booklet, price sixpence, entitled "Your Health Service," explaining to the public how the new Health Service will work in Scotland.

**New Burette Standard.** — A standard specification for 5 to 25 mil burettes with pressure-filling device and automatic stop has been issued by the British Standards Institution. Copies of the specification may be obtained from the Institution's Sales department, 24 Victoria Street, London, S.W.1, price 2s. each.

**New N.H.S. Leaflets.** — The Ministry of Health has issued two leaflets explaining how the public may get dental treatment including any medicines prescribed by dentists), or sight tests and spectacles under the National Health Service. Copies will be obtainable from the offices of Executive

Councils, at local offices of the Ministry of National Insurance, and at other centres.

**N.H.S. Oncost Increase.** — The oncost allowance of 29½ per cent. for drugs supplied on N.H.S. prescriptions is increased to 33 per cent. as from August 1. The Ministry of Health states that an addition of 33 per cent. to the ingredient cost, as priced, of all drugs and appliances supplied represents an oncost of 33½ per cent. on the net ingredient cost.

**Society's Council Entertains Minister.** — Mr. Aneurin Bevan (Minister of Health) was the guest of the Council of the Pharmaceutical Society at its monthly dinner in London on July 27. Discussions on the N.H.S. with the pharmaceutical profession, said the Minister, had been more fruitful than with any other branch of the medical world.

**Central Health Services Council.** — The Minister of Health announced the membership of the Central Health Services Council in answer to a question in the House of Commons on July 30. The pharmaceutical representatives are Messrs.

R. H. Henriksen and W. J. Tristram. At the first meeting of the Council on July 27, Mr. Fred Messer, M.P., was elected *Chairman*, and Professor Henry Cohen, *Vice-chairman*. Mr. E. J. S. Clarke (Ministry of Health) is *Secretary*.

**Executive Councils Report Progress.**—The chairmen of N.H.S. Executive Councils in England and Wales met the Minister of Health (Mr. Aneurin Bevan) for the first time on July 28 and gave reports on the working of the services for which the Councils are responsible. Mr. Bevan thanked the Councils for the way in which they had carried out the "heavy burden of work" that had fallen on them during the past few months. The vast majority of doctors throughout the country, he said, were co-operating in the National Health Service.

**Insurance for Part-time Employees.**—The Ministry of National Service has issued a reminder that although employers are not liable to pay contributions under the main National Insurance scheme for employees working for them for less than a total of four hours (eight hours if it is cleaning or other domestic work) in any week, they must nevertheless pay the Industrial Injury Insurance contribution (eightpence a week for a man, of which the employer can recover fourpence from the man's wages, and sixpence a week for a woman, of which the employer can recover threepence).

## LOCAL NEWS

**New Health Workers' Committee.**—The first meeting was held in Doncaster recently of a new north eastern regional health services working committee of the Association of Scientific Workers. The committee includes representatives of medical laboratory technicians, pharmacists, opticians, hospital physics departments, and other occupational groups. Discussions took place on conditions of employment of medical science workers.

**Walsall Officers.**—At the annual meetings of the Walsall Branches of the Pharmaceutical Society and the National Pharmaceutical Union, recently, the following officers were elected: *Chairman*, Mr. R. J. B. Shelley, *Vice-chairman*, Mr. F. A. C. Bannister; *Treasurer*, Mr. H. V. Weetman; *Secretary, Pharmaceutical Society Branch*, Mr. W. R. Webster, 352 Longford Road, Cannock, Staffs; *Secretary, N.P.U. Branch*, Mr. K. V. Hartshorne, 3 The Square, Rushall, Staffs.

## IRISH NEWS

**Northern Ireland's Trade Balance.**—Addressing the Stafford Rotary Club on July 29, Major Perceval-Maxwell (Parliamentary Secretary to the Northern Ireland Ministry of Commerce) said that Northern Ireland's visible balance of trade in 1947 showed an excess of exports over imports of approximately £2,500,000. The exports in that year were about 90 per cent. of the 1938 figure. Exports to the United States were about £4,500,000 in 1947 against about £1,500,000 in 1938.

**Eire Assistants' Examination.**—Sixty-four candidates for the July assistant examination of the Pharmaceutical Society of Ireland, the following twenty-one were successful: Bridget M. Cloonan, Peter Dillon, Patrick Fitzgerald, Martin Giblin, Catherine Golden, John D. Hallahan, Mary T. Keegan, Edward McGee, Margaret M. McGuinness, Michael T. Macke, Rosaleen F. Murphy, Mary Nagle, No. M. O'Carroll, Anne P. O'Connor, Tere O'Connor, Daniel J. O'Connell, Patrick M. O'Farrell, Honora M. O'Neill, Maureen Quirke, Elizabeth J. Smyth and Doreen Young.

**Belfast Closing Order.**—A draft early closing order published recently by Belfast Corporation provides for a closing hour 6.30 p.m. on normal week-days for pharmaceutical chemists and druggists in the city. A rota scheme for evening and Sunday opening prepared by the Ulster Chemists' Association (which has approved the draft order) is being held in abeyance until a rota fee has been negotiated with the Ministry of Health. The National Union of Small Shopkeepers is urging that the order, when it is made, should not apply to mixed traders selling chemicals and sundries.

**Chemists' Golf.**—The Irish Chemists' Golfing Society played for trophies donated by Irish Pharmaceuticals, Ltd., and P. Cahill & Co., Ltd., at Newlands, on July 14. In an eighteen-holes strokes competition the winner was Mr. M. L. Cashman (13), with 68, and the runner-up, Mr. J. Hurson (13), with 70. Prizewinners in eighteen-holes bogey competition were: A. Walsh (14), 2 down; 2, S. J. Savage (12), 2 down; 3, J. P. Kissane (11), 2 down. In the absence of the captain, Mr. J. J. Roddy presided at supper, at which the prizes were presented by Mr. P. C. Cahill. The next outing of the Society will be to the Howth course on September 1.

## OVERSEAS NEWS

**Canadian Convention.** — The annual convention of the Canadian Pharmaceutical Association was held at Windsor, Ontario, during August 4-6.

**I.G. Farben Explosion.** — Damage caused by the explosion at the I.G. Farben chemical plant at Ludwigshafen on July 28 has been estimated at \$15 million.

**Carnauba Wax Price.** — The minimum price for fatty grey carnauba wax established under a recent Brazilian Bill (see *C. & D.*, July 31, p. 135) is 400 cruzeiros per 15 kilos, ex warehouse, plus f.o.b. charges and export tax. [Corrected note].

**U.S. Credit for Pakistan.** — The Government of Pakistan has secured a credit of 10,000,000 from the U.S. Government (War Assets Administration) for the purchase of American surplus stores likely to be used for relief and rehabilitation of refugees.

**Canadian Imports.** — Canada imported rugs and medicines to a value of \$11,653,000 in 1947 against \$9,371,000 in the previous year. The value of imports of chemicals and allied products was \$113,085,000 in 1947, against \$92,874,000 in 1946.

**Forest Insects and Tree Diseases.** — The Food and Agriculture Organisation of the United Nations has recommended that its European Forestry Office at Geneva should act as an information centre on the control of insects and tree diseases in forests.

**German Chemical Exports.** — Exports of basic chemicals and chemical products from the U.S. zone of Germany during the first quarter of 1948 were valued at \$2,764,100 compared with \$578,000 during all of 1947. Pharmaceuticals amounting to \$230,000 were exported, comparing with \$549,300 contracted for in 1947.

**New-formula Insecticide.** — An insecticide now undergoing trials in the U.S. is understood to be a combination of piperonyl butoxide and pyrethrum. Used against house flies it has a rapid "knock-down" effect. Both aerosols and emulsions containing the compound have been applied experimentally from the usual type of spray apparatus. The compound has been used against several plant pests with satisfactory results.

**Sweden Limits Imports.** — The Swedish Government has decided, owing to dollar scarcity, severely to limit imports from the U.S. and Canada during the second half of

the present year. Imports of American chemicals are to be reduced from a value of 9.2 million kronor to 2.8 million. American goods shortly to disappear from the Swedish market include medical products, cosmetics and photographic materials.

**Indo-German Trade Pact.** — India and the Anglo-American zone of Germany have concluded a one-year trade pact covering an exchange of goods valued at more than \$32,000,000. The agreement, which terminates on June 30, 1949, provides for \$12,061,500 for groundnuts, groundnut oil, spices and manganese ore, etc., imported into Bizonia. In exchange, Bizonia will sell India chemicals, pharmaceutical products, instruments and metal articles valued at \$20,061,200.

**British Exhibition at Copenhagen.** — Among exhibitors who have already booked space at the British Exhibition, Copenhagen, September 18 to October 3 are:—

**Photographic articles.** — Barnet Ensign, Ltd.; Gnome Photographic Products, Ltd.; Ilford, Ltd.; Kodak, Ltd.; Torrington Co., Ltd.; and Victor Animatograph Corporation, Ltd. **Perfumery and toilet articles.** — J. & E. Atkinson, Ltd.; Cavalcade Beauty Preparations, Ltd.; J. Grossmith & Son, Ltd.; Parfumerie Delafine, Ltd.; A. & F. Pears, Ltd.; and T. J. Smith & Nephew, Ltd. **Bottles and jars.** — The International Bottle Co., Ltd. **Chemicals and Mineral Oils.** — H. Lloyd & Co., the Permal Laboratories, Ltd.; Petrochemicals, Ltd.; Williams (Hounslow), Ltd. **Powder puffs.** — J. Ellis & Co. There is also a combined exhibit by the Scientific Instruments Manufacturers' Association of Great Britain, Ltd.

## PHARMACEUTICAL COMMITTEE APPOINTMENTS

**Sheffield.** — *Chairman*, Mr. Ernest Preston, Ph.C.

**Hertfordshire.** — *Chairman*, Mr. D. W. E. Barker; *Secretary*, Mr. H. F. Hayllar, 35 High Street, Hoddesdon, Herts.

**Southampton.** — *Secretary*, Mr. G. W. Whitaker, Chateauroux, Court Lane, Gosham, Portsmouth.

**Preston.** — *Chairman*, Mr. F. McLaughlin; *Treasurer*, Mr. W. B. Paufret; *Secretary*, Miss E. F. Seed, 92A Fishergate Hill, Preston.

**Isle of Ely.** — *Chairman*, Mr. J. A. Gardiner; *Vice-chairman*, Mr. R. Scrafton; *Secretary*, Mr. E. J. Wright, 3 Broad Street, March.

## COMPANY NEWS

**G. H. DAVIES (WIGAN), LTD.** (P.C.)—Capital £2,250. To acquire the business of a pharmaceutical chemist, etc., carried on at 122 Wallgate, Wigan. George H. Davies, M.P.S., and Thomas Davies, directors.

**EIRE CHEMICALS, LTD.** (P.C.)—Registered in Dublin.—Capital £1,000. To carry on the business of manufacturing chemists, etc. The first directors are not named. Subscriber's address: 19 Botanic Avenue, Glasnevin, Dublin.

**GRAY (CHEMISTS), LTD.** (P.C.)—Capital £8,000. To carry on the business of chemists, druggists, etc. Eileen M. R. Hoare and Dorothy M. Keall, directors. R.O.: 5 Arundel Street, London, W.C.2.

**PRITCHARD (PRESTATYN), LTD.** (P.C.)—Capital £6,500. To acquire the business of a retail chemist carried on at High Street, Prestatyn, Flintshire. William E. Pritchard, M.P.S., and Charles W. Latham, M.P.S., directors.

**CLEMENTS (WARSTOCK), LTD.** (P.C.)—Capital £3,000. To acquire the business of a chemist and druggist now carried on by Davis M. Belston at 245 Higheters Heath Lane, Warstock, Birmingham. The first directors are to be appointed.

**PERENNOL CHEMICALS, LTD.** (P.C.)—Capital £100. To carry on the business of manufacturers of and dealers in chemicals, drugs, medicines, etc. First directors are to be appointed. R.O.: 55 Whitecross Street, London, E.C.1.

**KEMGO, LTD.** (P.C.)—Registered in Dublin.—Capital £2,000. To carry on the business of manufacturers of and dealers in medicinal, veterinary and similar products, chemicals, drugs, etc. The first directors are not named. Subscriber's address: Cherryfield, Templeogue, co. Dublin.

**ASSOCIATED TRADERS, LTD.** (P.C.)—Registered in Dublin.—Capital £12,000. To carry on the business of manufacturers of and agents for chemists' and druggists' requisites and sundries, etc. Noel F. Poynton, director. Subscriber's address: 27 Cliftonville Road, Glasnevin, Dublin.

**Moss PHARMACIES (1948), LTD.** (P.C.)—Capital £100. To carry on the business of manufacturing, wholesale and retail chemists and druggists, etc. James E. W. Moss, Ernest R. Gutsell, M.P.S., and Mrs. Helen Moss, directors. R.O.: 76 King's Cross Street, Halifax.

**MCQUAIDS MEDICAL HALL, LTD.** (P.C.)—Registered in Dublin. Capital £100. To carry on the business of wholesale or retail chemists, manufacturing, dispensing and pharmaceutical chemists, etc. First directors are not named. Subscribers' address: 67 Dame Street, Dublin.

**STERNS, LTD.**—Mr. Reginald Stonhold has been appointed a director.

**F. W. HAMPSHIRE & CO., LTD.**—Interim dividend is recommended of 20 per cent., the same as previously.

**VITAMINS, LTD.**—At the recent general meeting, the chairman, Mr. H. C. H. Graves, said that "additional finance might be needed within the next year or two—especially if they found the 'long term' home they were seeking for their manufacturing activities."

**A. BOAKE, ROBERTS & CO., LTD.**—Net profit before taxation, for the year ended March 31 i £229,007, against £238,279. A final dividend i recommended of 20 per cent., making 30 per cent less tax for the year against 12½ per cent., tax free in the year before.

**BEECHAM GROUP, LTD.**—The statement of th chairman (Sir J. Stanley Holmes, M.P.), issue with the report and accounts for the year ended March 31, gives £751,511 as the amount available for dividends on deferred shares and for reserves. The final dividend of 4 per cent. (see *C. & D.* July 10, p. 42), after deduction for tax, cos £33,275 which, with the interim dividend of 3 per cent. (£299,475), absorbed £332,750, leavin £418,761 to be carried forward in the accounts. The carry forward of the parent company ha been increased by £34,365 and those of subsidiar companies by £219,833; £164,563 has been transferred to reserve for future income tax. Th company's research station at Brockham Park Surrey, has formulated two new ethical product shortly to be placed on the market by a subsidiar of Eno Proprietaries, Ltd. At the annual genera meeting on July 28, Messrs. Hubert A. Meredith O.B.E., and George Morrison, the retiring direc tors, were re-elected to the board.

## LEGAL REPORT

**Appeal Date Fixed.**—On an applica tion on behalf of May & Baker, Ltd. Dagenham, and Ciba, Ltd., Horsham, th Court of Appeal has fixed October 25 nex for the hearing of the appeal of the tw companies against the judgment of Mr Justice Jenkins on January 29, whereby on the petition of Boots Pure Drug Co. Ltd., he revoked the appellants' patent fo an invention entitled "Manufacture o benzene sulphonamido derivatives." Th Master of the Rolls was informed that th appeal would probably last two or three weeks. So far as mastery of chemical prin ciples was concerned, the judgment wa admirable, said counsel for the two com panies, but the major battle, he thought would be over the question whether th amendment of the specification which wa asked for (and refused by the judge) wa permissible. The application was supported on behalf of Boots Pure Drug Co., Ltd. by Mr. Lionel Heald, K.C. The Master o the Rolls said the hearing of the appea would start on October 25, subject to any thing part heard.

**MR. ANEURIN BEVAN**, in reply to a Par liamentary question, told SIR ROBERT YOUNG on July 22 that otologists were being asked to give priority in ordering deaf aid to the most deaf patients and others who are seriously handicapped in their work

## TOPICAL REFLECTIONS

### Conference on Insecticides

The Fifth Commonwealth Entomological Conference (p. 146) has proved to be of practical importance to chemists. Some manufacture insecticides, some retail them, and many have a second interest in them as users in houses and gardens. Your editorial comment on p. 153 appropriately calls attention to the increasing volume of research devoted to these promising but "tricky" substances. Photographs of fields treated with selective weed-killers cannot be paralleled where insecticides are used, unless by chance we get a visitation of locusts or some other pest comparable to those met with in Africa. Evidently, however, the investigation of insecticidal problems is proceeding on sound lines; the remarks of Dr. V. B. Wigglesworth at the Conference will be noted in this connection. A good example of need for discrimination occurs in the statement of Mr. W. A. Ross that application of DDT to trees had not resulted in injury unless there had been a concurrent use of oil. At the risk of emphasising the obvious I may remind your readers of warnings previously given about the toxic effects of some chemicals on persons handling them. A few months ago I saw a report of an inquest on an agricultural worker who died after treating an area with a spray designed to protect a growing crop; the main constituent of the liquid was, I believe, dinitrophenol.

### Dispensatories

It was pleasant to find Lewis's Dispensatory rescued from the partial oblivion into which it had been consigned (p. 156). When a popular Victorian physician declared (so an accepted story states): "Squire" is my pharmacopœia," he paid, by inference, a tribute to a long line of books that have been invaluable to prescribers and dispensers. The first author of this class of manual was, I suppose, Platarius, who in the twelfth century ened or dictated a long commentary on the Antidotarium of Nicolaus of Salerno. Matthiolus wrote similarly on Dioscorides; the British Museum has an edition on his book, dated 1554, containing many quaint illustrations. The "De Compositione Medicamentorum" of Cronenburgius (1555) is a well-arranged dispensatory well cited. In 1661 Cole, Culpeper and divers Learned and Able Doctors of Physick" collaborated in an English Version of the Pharmacopœia Londinensis of

1650, with comments and "A Key to Galen's Method of Physick." Cole was described on the title-page as "Doctor of Physick, and the Liberal Arts; who hath Practised Physick forty nine years, And lived above thirty years, out of his own Country; and hath seen the practice of France, Italy, Germany, Turkey, and the Indies;" Shipton compiled in 1678 an alphabetical synopsis of the P.L., 1677, with a few additions. In the eighteenth century, as the article referred to indicates, the number of dispensaries increased. Early in the nineteenth century came those of A. T. Thomson and Sir Robert Christison.

### Brighton's Fame

An apology is perhaps due from me in attempting in 1948 to offer any remarks on Brighton, the subject of an illustrated article on pp. 148-51. There may, however, be a few readers in some part of the world who are not aware that Richard Russell, M.D., in "A Dissertation On the Use of Sea-Water In the Diseases of the Glands . . ." (1752), recommended the sea water of his town for internal as well as external use. His normal dose was a pint, to be taken either alone or as a supplement to other medicine. One of his patients drank this potion every morning till she had swallowed twenty-five gallons, a record that he seems to have regarded as highly satisfactory. In "A Short History of Brighthelmston" (1761), Anthony Relhan, M.D., possibly thinking that Russell was enjoying too great a monopoly of attention, described "the mineral spring" of the town, accidentally discovered some years earlier "to the north-west . . . and at a distance of half a mile." Relhan made no reference to Russell's treatise, though he mentioned the drinking of sea water by a hospital patient in Dublin. One of his arguments for proving the healthiness of his locality was that observations made during three consecutive months in London and in Brighton showed a much greater barometric variation in the Metropolis than on the south coast, with the result that "the atmosphere gravitated much more." An advertisement in a London newspaper in 1757, denying that smallpox was prevalent in Brighton, is presumptive evidence of its popularity as a health resort; in 1773 another paper had an announcement that sea water from the town was obtainable at an address in South-east London.

Xrayser

## BIRTH

**BAILLIE.**—In Manchester, on July 28, Renée, the wife of Mr. J. K. Baillie, 7 Wilton Road, Manchester, 8 (a representative of Stafford Allen & Sons, Ltd.), of a son.

## MARRIAGE

**MACDONALD—GRIGOR.**—At Elgin, recently, Alexander Macdonald, Ph.C. (a lecturer, at Robert Gordon's College of Pharmacy, Aberdeen), to Lilius Elizabeth Grigor, Elgin.

## DEATHS

**ARNFIELD.**—At Roseneath, Queen's Road, Hazel Grove, Stockport, on July 29, Mr. Benjamin Arnfield, aged eighty-five. Mr. Arnfield entered the service of the late Mr. Thomas Kerfoot, Ph.C., in Manchester in 1886. After a period in the office he became an outdoor representative in 1890. He remained with Thomas Kerfoot & Co., Ltd., until his retirement in 1934.

**BENTLEY.**—On July 22, Mr. John Richard Bentley, senior, M.P.S., 85 Kirkgate, Leeds, 2, aged eighty-four. Mr. Bentley, who was a native of Helmsley, Yorks, served his apprenticeship at Thirsk, qualified in 1886, and, two years later, started his business at Kirkgate, Leeds, which is now carried on by his son, Mr. J. R. Bentley, M.P.S.

**DUDFIELD.**—Suddenly, on July 11, Mr. F. F. Dudfield (chief chemist and buyer of Bourjois, Ltd.), aged 88 years. Mr. Dudfield had been well known in the perfume and essential oil trade for more than fifty years. Before joining Bourjois, Ltd., Mr. Dudfield was for a number of years principal of Bayley & Co., perfume and toilet soap manufacturers. He sold that business in 1925, and after living for two years in the South of France joined the staff of Bourjois, Ltd., in 1927. He was active in business until shortly before his death. A colleague writes: "His passing leaves us with a very deep personal sense of loss and, of course, his long and wide experience will be greatly missed."

**JEWELL.**—On July 11, Mr. Harry Jewell, 54 Westwood Road, Southampton. Mr. Jewell qualified as a chemist and druggist in 1892 and later conducted a retail business at Above Bar, Southampton, until his retirement some years ago.

## WILLS

MR. H. FRANCIS, M.P.S., 18 Hickman Rd Penarth, Glam., left £2,773 (£2,398 net).  
MR. J. W. CLEGG, M.P.S., 18 Wesley St Castleford, Yorks, left £2,811 (£1,626 net).

MR. H. B. BILLINGTON, 28 Mount Vernon Rd Barnsley, Yorks, retired pharmacist, left £16,12. with net personality £16,080.

MR. W. ASHWORTH, retired chemist, 98 Prin Road, Hartsill, Stoke-on-Trent, Staffs, left £8 with net personality £840.

COLONEL J. W. REID, 25 Christchurch Road, W chester, Hants, a director of Borax Consolidat Ltd., left £2,051, with net personality £1,945.

MR. E. L. S. CROFTS, M.P.S., 8 Deepd Midenbury Lane, Bitterne Park, Southampton, 1 £115.

MR. H. T. HARRISON, Faygate, Adel La Leeds, a director of Alf. Harrison & Sons, cl mists' printers, Leeds, left £6,816 (£5,692 net).

MR. H. S. MISSTEAR, M.P.S.I., 84 Kenilwo Square, Rathgar, co. Dublin, left personal est in England valued at £15,991.

MR. J. CARDWELL, 5 Church Lane, Brighouse, Yorks, managing director of Cardwell & Son, Lt chemists, Brighouse, left £2,522 (£2,478 net).

MR. W. J. THOMAS, M.P.S., Maesyderi, Corpo Road, Loughor, Glam., left £5,940 (£5,8 net).

MR. T. BELL, M.P.S., 3 Cobden Terra Brighton Road, Rhyl, Flints, left £4,093 (£4, net).

MR. H. E. WOOSTER, M.P.S., 38 Park F Court, Croydon, Surrey, formerly of 85 Haverstock Hill, London, N.W.3, left £2,740 (£2,668 net).

MR. WILLIAM BURTON RUSHTON, M.P.S., Bankfield Lane, Southport, Lancs, left £8,2 with net personality £8,128.

SIR FREDERICK GOWLAND HOPKINS, O.M., F.R. LL.D., Sc.D., M.B., F.R.C.P. (professor of b chemistry, Cambridge University), left £14, (£13,909 net).

MR. A. M. BROWNLEE, M.P.S., Gogoside Dri Largs, and Meadow Place, Skelmorlie, Ayr, personal estate in England and Scotland valued £18,672.

MR. WILLIAM ARTHUR COMBER, 214 Northdo Road, Margate, Kent, a director of V. J. Wo Ltd., chemists, left £1,402, with net persona £1,351.

MR. BROOKE WILLIAM GREGORY, M.P.S., Shorncliffe Crescent, Folkestone, Kent, formerly partner in Lloyd & Gregory, chemists, Cheltenham, left £5,857, with net personality £5,798.

MR. F. ARCHER, 29 Woodland Avenue, Breton, nr. Derby, retired pharmacist, left £2,4 (£1,966 net). He left a grant to Birdsgrove House, Mayfield, Ashbourne (the Pharmaceutical Society's convalescent home).

MR. J. S. PRIOR, M.P.S., 2 Broad Street, Stamford, Lincs, formerly of Stamford High St a former president of the Peterborough and Kesteven (Lincs) Chemists' Associations, and the East Anglian Federation of Pharmacists, £14,867 (£14,703 net).

## PERSONALITIES

MR. W. E. H. BARNES, M.P.S., Peterborough, is sailing to the Continent in a 8 ft. gaff-rigged cutter for his August vacation.

MR. LESLIE G. MATTHEWS, Ph.C., Barrister-at-Law, who has been elected chairman and president of the North London Pharmaceutical Association, is a director of The Wellcome Foundation, Ltd., and chairman of Therapeutic Research Corporation of Great Britain, Ltd., and has served as chairman of the fine chemicals group of the Association of British

Chemical Manufacturers. He was appre- ced with Mr. F. S. Cullen, of Norwich, and after service in the 1914-18 war qualified as a Pharmaceutical Chemist from the College of the Pharmaceutical Society in 1921. He joined Burroughs Wellcome Co. the same year, and in 1941 was appointed secretary of The Wellcome Foundation, Ltd. He has published several papers on the history of phar- macy and is a member of the Société Histoire de la Pharmacie (France), a Freeman of the Society of Apothecaries of the City of London, and a member of the Medico-Legal Society.

THE Medal of Merit of the United States, the highest American award to a civilian, has been presented to SIR ALEXANDER FLEMING and SIR HOWARD FLOREY for their work on penicillin.

MR. T. DALLING, M.A., M.R.C.V.S., rector, veterinary laboratory, Ministry of Agriculture and Fisheries, New Haw, Weybridge, has been appointed chief veterinary officer to the Ministry from August 21.

MR. H. HUMPHREYS JONES, J.P., Ph.C., R.I.C. (principal of the Liverpool School of Pharmacy) is to represent Wales at the World's Presbyterian Alliance which is meeting in Geneva from August 18.

MR. D. D. SWEENEY, M.P.S.I., Glens, co. Donegal, who runs a local hotel in

addition to a pharmaceutical business, is now actively engaged also in developing the export of handwoven Irish tweeds to France.

PROFESSOR E. B. ASTWOOD, M.D., C.M., Ph.D. (endocrinologist at the Pratt Diagnostic Hospital, Boston, U.S.A.) received the Cameron Prize at a ceremony in Edinburgh recently for his work on the effects of drugs on the thyroid gland.

MR. H. V. LLOYD has retired after fifty-two years' continuous service with Evans Medical Supplies, Ltd., Speke, Liverpool. For the past twenty years he has been manager of the proprietaries department of the company.

MR. ALFRED WISEMAN (assistant managing director, C. E. Fulford, Ltd.) who is a member of the Harrogate flower show committee, has sent to every chemist in the Yorkshire area a showcard announcing the show, which takes place on September 1 and 2.

MR. REGINALD STONHOLD, who has been appointed a director of Sterns, Ltd., Finsbury Square, London, E.C.2 (see p. 168), has served for many years as the company's chief outdoor sales manager and has just completed fifty years' continuous service with the company. To mark the occasion, the company plans to make Mr. Stonhold a presentation. He started with the company as an office boy in 1898.

MR. JAMES SMITH, M.P.S., who has been appointed assistant pharmacist at Blackburn Royal Infirmary, qualified in 1935 and was formerly the proprietor of a pharmacy in Blackburn Road, Darwen. He joined the Royal Army Medical Corps in 1942, and was demobilised in 1947, when he took an appointment with J. McMyn, 3 Sudell Cross, Blackburn.

MR. ROY PILKINGTON, M.P.S., who has been appointed for a further term as president of the Birkenhead and Wirral Pharmacists' Association, is a native of Ramsey, Isle of Man. He served his apprenticeship with the late Mr. J. C. Caine, Birkenhead, and qualified in 1929. After experience as a locum tenens he succeeded to the business of his former apprentice-master in 1931. He immediately joined the local association, and after acting with the organisation in a number of official capacities, was appointed its president in 1939.



## TRADE NOTES

**Addition to Meritor Series.**—S. Maw, Son & Sons, Ltd., Barnet, Herts, announce the introduction of Meritor baby powder, packed in colourful tins and display unit.

**Pharmacy Jackets.**—Gardiner & Co., Ltd., 1-5 Commercial Road, London, E.1, are offering fine white drill coats. Details in this issue.

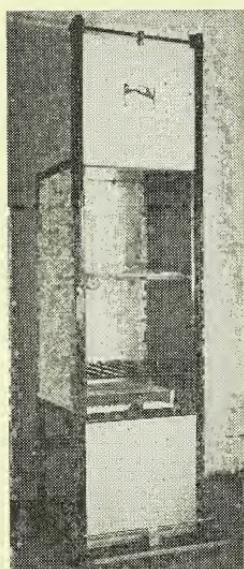
**New Drying Oven.**—A new type of drying oven, operating between the temperature of 25° to 130° C., is being manufactured by the Arpan Engineering Co., Ltd., 73 Mortimer Street, London, W.1. Designed originally for use in the plastics industry, the oven is heated with a thermostatically controlled electrical unit, which gives great protection against ignition of inflammable vapours, and which is not easily short-circuited by falling drops of liquid. It is heat insulated throughout, and opened by foot-operated doors. By arrangement with Smith Bros. & Flynn, Ltd., 75 Mortimer Street, London, W.1, the ovens may be hired.

**Direct Vision Camera.**—Details of the Jupiter direct vision camera, distributed by Perico Products, 162 High Street, Southend-on-Sea, are given elsewhere in this issue.

**Air Freshener.**—The distributors of Aerozone, a preparation intended for domestic use for eliminating stale cooking odours, etc., are Sale, Tilney (Marketing), Ltd., 3 Lloyds Avenue, London, E.C.3.

**Colloidal Aluminium Hydroxide.**—A. Wander, Ltd., 5 & 7 Albert Hall Mansions, London, S.W.7, give details of the introduction of Alocol cream for neutralising excess acidity.

**Bonus Offer.**—Southon Laboratories, Ltd., 88 Upper Richmond Road, London, S.W.15, state that the bonus offer of Esoban cream of calamine is still available.



**Technical Education.**—Application is invited by the Principal, Technical College, Bradford, for particulars of course being organised by the department of pharmacy.

**Aromatic Chemicals.**—In their announcement this week W. J. Bush & Co. Ltd., London, E.8, list some of the pharmaceutical, fine and aromatic chemical they are supplying.

**Vulcanite Combs.**—A series of combs made of vulcanite, made by the North British Rubber Company, Ltd., Edinburgh, is detailed in the company's announcement in this issue.

**Giant Shaving Stick.**—Details of the new Maestro giant shaving stick made by Esmorea Chemical Products, Ltd., 10 Regent Street, London, W.1, are given in this issue.

**Supplies Recommerce.**—S. Smith & Co., 132 Borough, London, S.E.1, whose factory and offices were damaged recently by fire, state that they can now meet the demand for a number of their lines in full and for others to a limited extent.

**National Advertising.**—Wright, Layman & Umney, Ltd., Southwark Street, London, S.E.1, announce that Wrights' castor soapless liquid shampoo is now the subject of an advertising campaign on national scale.

**Dissolved Oral Vaccines.**—A series of dissolved oral vaccines are now available made by Lantigen (England), Ltd., Baconsthorpe, Surrey, and distributed by J. C. Gambles & Co., Ltd., 209-15 Blackfriars Road, London, S.E.1.

**Laboratory Equipment for Iran.**—The Iranian Government invites tenders for chemical laboratory equipment to specifications obtainable from the Chancery of the Iranian Embassy, 50 Kensington Court, London, W.8.

**Holiday Closing.**—The works of Thornton & Ross, Ltd., Linthwaite, Huddersfield, closed on August 6, and will re-open on Monday August 16. Multipax Chemicals, Ltd., 32 Shaftesbury Avenue, London, W.1, also closed for their annual holiday on August 6, and will re-open on August 23.

**Double-woven Drinking "Straws."**—P. Harris & Co., Talbot House, St. Martin Lane, London, W.C.2, claim that their St. Martin's drinking "straws" are unsu-

passed for strength and rigidity, being double woven, in contrast to the single-weave straws commonly used. Good supplies are available through chemist wholesalers.

**Pulverising Plant Installed.**—J. C. Gilbert, Ltd., Columbia House, Aldwych, London, W.C.2, have recently formed a pulverising division at their factory at Codicote, Herts. The plant is equipped for drying, grinding and screening all raw materials. Trade inquiries are invited.

**Screw-cap Agency.**—Tinpacks, Ltd., 17 Shaftesbury Avenue, London, W.1, have taken over the sole agency for the Metta-capper screw-capping machine, described as very efficient at reasonable cost. They are prepared to arrange demonstrations.

**£250 Prizewinner.**—Winner of a £250 "Name the hair styles" competition organised by the manufacturers of Pink Ribbon shampoo was Miss Rosa Perry, who received her cheque from film star John Mills at a "Sunday Pictorial" film garden party recently. The distributors of Pink Ribbon shampoo are Sale, Tilney (Marketing), Ltd., 1 Rangoon Street, London, E.C.3.

**"Penicillin in Medical Practice."**—A 47-page book, 8½ in. x 5½ in., published recently by Imperial Chemical (Pharmaceuticals), Ltd., Alderley Edge, Manchester, reviews the properties, indications, methods of administration, clinical reports, and the penicillin salts and preparations issued by the company. The manufacture of the drug is illustrated with full-page photographs. Some hundred references are listed.

**Display Fitments.**—S. Barford & Sons, Ltd., Argyle House, Euston Road, London, N.W.1, are the manufacturers of Rodre window-display fitments, comprising a framework of metal rods, brackets, clips and glass shelves, with a variety of individual show fittings for articles ranging from a tube of tooth-paste to a display of medicine bottles. The system enables glass shelves and clips to be removed without disarranging the whole display. By means of patented brackets and clips, showcase glass may be set to any degree needed to meet the requirements of the window dresser.

**Nuclear Research Apparatus.**—General Electric Co., Ltd., Kingsway, London, W.C.2, is giving technical assistance to the radio therapeutic research unit of the Medical Research Council in designing a micro-wave linear accelerator that will

give a compact source of electrons and x-rays in the range 5 to 20 MEV. The company is also working on vacuum annuli ("doughnuts") for large synchrotrons to be built in Britain, and has devised new techniques in making glass-to-metal seals for precision manufacture of columns such as are used in the Van de Graaf generator now being built at the Atomic Research Establishment, Harwell.

#### Display Stand.

—An offer is made by Luma Products, Ltd., 53 Blandford Street, London, W.1, to make available on indefinite loan to stockists, against a £3 order, and to new customers on orders valued at £3 16s. 6d., a display stand in blue and white to match the pack of the compound, together with literature for distribution to customers. Arrangements for distributing the stands are in the hands of Marshalls Proprietaries, Ltd., 127 High Street, Croydon.



### Proprietary Articles Trade Association

**Additions to the Protected List (Part 1).**—*Benger's, Ltd.*, Extomak, No. 1 size, 6s. 4d. doz., retail, 6s. 8d.; No. 2 size, 120s. doz., retail 12s. 8d. Exempt from tax.

*Genatosan, Ltd.*, Germosan liquid, 6-oz., 13s. doz. (Purchase tax 33½ per cent.), i.r.p. 2s. This line replaces Germosan germicide, which has been withdrawn.

**Alterations.**—*J. Allen & Co. (Latex), Ltd.*, Reduced prices—August 3. Marigold cushion soother, 72s. gross, retail 9d. Exempt from tax.

**Additions (Part 2).**—*Pond's Extract Co., Ltd.*, Liquifying cream, 13s. 6d. doz. (Purchase tax 100 per cent.), i.r.p. 2s. 7½d.; skin freshener, 7s. 10d. doz., (Purchase tax 100 per cent.), i.r.p. 1s. 6d.; 15s. 8d. doz. (Purchase tax 100 per cent.), i.r.p. 3s.

**Tattoo Preparations** (Agents: *Fassett & Johnson, Ltd.*), Lipstick (new small size), 8s. doz. (Purchase tax 100 per cent.), i.r.p. 1s. 8d.; refill (new small size), 4s. 8d. doz. (Purchase tax 100 per cent.), i.r.p. 11½d.

**Alterations (Part 2).**—*Brand & Co., Ltd.*, Prune baby food now packed in standard baby food can instead of bottles, 6s. 1d. doz., retail price 8d. Exempt from tax.

## NATIONAL PHARMACEUTICAL UNION

MEETINGS of the Executive of the National Pharmaceutical Union and the directors of the Chemists' Defence Association, Ltd., were held in London on July 27 and 28, Mr. G. H. M. Graham in the chair. Mr. H. Holmes (Torquay) was welcomed as the newly elected representative for the South-western area.

### Date-expired Milk Foods

The secretary's report outlined discussions that were proceeding with the authorities to provide purchase tax exemption for dispensing packs of B.P. and B.P.C. drugs and preparations when put up under a proprietary designation. A communication from the Ministry of Food stated that retailers who were holding stocks of proprietary infant milk foods that would shortly exceed the manufacturers' warranty date might now apply to a food office for an authority to dispose of a specified number of tins of named brand without production by the purchaser of the appropriately endorsed ration book R.B.2. The authority issued would be valid only for one month from the date of issue; if the specified stock had not then been disposed of, the retailer would have to seek a renewed authority to dispose of the balance.

The secretary stated that the decision of the Ministry of Health and the Ministry of Food was awaited on discussions that had taken place on July 12 on an increased allocation of sugar for pharmaceutical purposes. The increased allocation that might be expected should be sufficient to meet the increased need in the summer but heavy winter dispensing needs would almost certainly necessitate a further review.

The Executive considered provisions in the Joint Industrial Council agreement relating to payment of wages and salaries during illness and decided that no action from the employers' side was called for at present. The question of payment for accrued holidays where employment was terminated before a holiday fell to be taken was also discussed.

The former Central N.H.I. Committee was reconstituted under the title "Central N.H.S. Committee." Mr. A. R. Melhuish, who had been chairman of the Central N.H.I. Committee since 1925, indicated that he was not prepared to act as chairman to the new committee, and Mr. T. Heseltine was elected *Chairman*. Messrs.

D. A. Bryan, Penmaenmawr, B. P. Davie Haverfordwest, and J. D. Morgan, Cardiff had been appointed by the Minister of Health to the Welsh Joint Pricing Committee. It was reported that copies of the new National Formulary were to be circulated to Pharmaceutical Committees for comment as soon as they became available. Every effort would be made to ensure that copies were available to contractors for a adequate period before the date of operation ultimately decided on (provisional January 1, 1949).

### Whitley Council Report

A report of the first meeting of the full Pharmaceutical Whitley Council held on July 16 announced the following appointments: *Chairman*, Captain R. E. Deverry (Regional Hospital Boards); *Vice-chairman*, Mr. D. Currie (Guild of Public Pharmacists); *Joint Secretaries*, Messrs L. H. G. Jewsbury (Ministry of Health) and H. Noble (N.P.U.). A constitution agreed for the Council provided for the setting up of three virtually autonomous standing committees, representing respectively contractors in England and Wales, contractors in Scotland, and hospital and public-service pharmacists in Great Britain. It was understood that the contractor committee for Scotland proposed to see arbitration on remuneration if it could come to terms with the management side. A meeting of the hospital committee has been arranged for August 20. Mr. G. H. M. Graham was appointed as one of three representatives from the staff side of the Council for a meeting of representatives of staff sides of health services Whitley Councils on September 3 (the two other representatives would be appointed by the committee representing chemist contractors in Scotland and hospital and public service pharmacists). The Committee agreed a document setting out an amended model scheme for drug testing under the N.H.S. Act for submission to Executive Council and Pharmaceutical Committees. Other N.H.S. matters discussed included the provision of medicines for persons attending residential educational establishments, medical-aid and other public dispensaries, and the question of the inclusion of the names of hospital pharmacists on Executive Council lists for the provision of pharmaceutical services. It was reported that discussions with the Ministry of Health on

specification for trusses and surgical nosiery and the basis of payment for such appliances had not been completed. Proposals from the Ministry for ensuring some degree of control over the channel of provision of such appliances were examined and, as they affected trusses, were accepted as satisfactory, subject to certain amendments.

### Liability to Jury Service

The request that a statutory exemption or practising pharmacists from liability to jury service should be provided in the impending amending National Health Service Bill was reported to have been rejected by the Home Office as a matter which would have to await attention when the general law affecting such exemptions came under review. The Executive decided to make further representations on the matter, although recognising that, as an act of grace, the authority summoning a pharmacist for jury service frequently withdrew the summons when a plea, based on the considerations which clearly justified a statutory exemption, was put forward.

Following negotiations with the Ministry of Health, it was agreed that the Ministry would continue to make payment for drugs dispensed on dental N.H.S. prescriptions during August, even when the drugs ordered were not included in the Third Schedule to the N.H.S. (General Dental Services) Regulations. From September 1 onwards, however, payment would be disallowed for any drug ordered on a dental N.H.S. prescription which was not included in the relevant schedule. The Executive had previously objected and would continue to object to the position in which the obligation to refuse to dispense a dental prescription for non-scheduled drugs rested on the pharmacist. That position must, however, continue, it was stated, until either pharmaceutical representations or the pressure of other professional and public opinion led to a change in the Regulations. For medical prescriptions, no limitation was placed on the range of drugs which might be ordered, but only those appliances included in the Third Schedule to the N.H.S. (General Medical and Pharmaceutical Services) Regulations could be supplied on N.H.S. prescriptions. While the Ministry had agreed to make payment for non-scheduled appliances supplied in good faith during July, it was intended to apply the full requirements of the Regulations to prescrip-

tions dispensed thereafter. In view of the erroneous impression in the minds of members of the public that doctors could order any type of appliance on prescription (whereas certain types of appliances could be obtained only by the doctor referring his patient to the hospital service) it was decided to remind all contractors that they must, in their own interests, refer back to the prescriber any prescription for a non-scheduled appliance.

The Executive noted with satisfaction the appointment of Mr. W. John Tristram to serve on the Central Health Services Council. Congratulations and best wishes for the future were also extended to Dr. J. Tait, whose impending retirement as resident secretary to the Scottish Department of the Pharmaceutical Society was noted.

### Chemists' Defence Association

Settlements approved included payments of £49, £50 and £177 on claims that personal injuries had been sustained by members of the public as a result of articles supplied by members. Twenty-six other claims were left to the secretary for attention. It was reported that a member had been supported in court in resisting a claim based on an allegation that a dispensed medicine had been contaminated with a fly. Despite the adverse publicity which would have resulted from an unsuccessful defence, the member had been anxious to resist the claim to the full in the interests of the profession generally. Judgment with costs against the plaintiff had been awarded to the member concerned. Legal defence had been provided for a member who had supplied Linimentum Album, N.W.F. when asked for liniment of turpentine. A fine of £5 5s. had been imposed.

### INQUESTS

**Overdose of Amytal.**—At an inquest at Slough, recently, the coroner returned a verdict that the dead person, a man of sixty-two, had taken his own life with an overdose of sodium Amytal while the balance of his mind was disturbed.

**30-gr. Dose of Phenobarbitone.**—At an inquest on a woman at Brixton, London, recently, a Home Office analyst stated that a box found beside the woman's bed had contained 1-gr. phenobarbitone tablets mixed with other smaller tablets. The woman had taken 30 gr. of phenobarbitone—far beyond the dose prescribed for her at a hospital. A suicide verdict was returned.

## PHARMACY IN ECUADOR

RECENT legislation in Ecuador classifies the various sections comprising the drug trade as pharmacies, laboratories, drug stores, agencies and "representation houses." The dispensing of prescriptions is confined to pharmacies. The function of a laboratory is to manufacture all kinds of drug, chemical, pharmaceutical and biological preparations; it may not sell them direct to the public. Drug stores may not dispense prescriptions and are allowed to repackage and sell bulk drugs only under stringent restrictions. Agencies and "representation houses" are permitted to advertise and receive orders for drugs and medicines, but may neither import on their own account nor sell by wholesale or retail. New regulations provide for supervision of all dispensing by registered pharmacists and for night dispensing duty on a rota basis. All categories of pharmaceutical concern are subject to inspection by commissions under the General Health Administration, which also establishes rules for dispensing (including "repeats") and filing prescriptions, in addition to controlling the sale, packing, labelling, etc., of poisons and narcotic drugs. Standards of employment of pharmacists, and others are laid down in the regulations.

## CANADA'S TOILET INDUSTRY

PRODUCTION of toilet preparations in Canada in 1947 was valued at \$15,978,000 (20 per cent. less than in the previous year). The industry employed 1,649 workers, in 102 establishments. Imports of toilets were valued at \$723,000 and exports were valued at \$1,152,000. In 1946 selling values (in dollars) at works of different classes were as follows:—(a) *Alcoholic* (not less than 5 per cent. alcohol); Perfumes, 1,389,979; toilet waters, Colognes and lotions, 3,894,984; bay rum, hair tonics, liquid brilliantines, wave sets, etc., 507,845; (b) *Non-alcoholic*: Creams, all kinds, solid, 2,185,938; liquid, 321,353; brilliantine, solid, 77,926; face powders, 1,208,978; talcum powders, 1,243,073; sachet powders, 105,127; lipstick, 884,004; rouge, 314,423; compacts (powders and rouges), 70,320; shampoos, liquid, 1,292,936; powders, 110,120; bath salts and bath oils, 453,706; deodorants, 353,392; toilet waters and lotions, 299,732; hair tonics, liquid brilliantines, wave sets, etc., 167,711; manicure preparations, 731,270; dentifrices, pastes, 3,276,625; powders, 655,568; liquids, 49,285; oral antiseptics, 598,924.

## BRAZILIAN CAFFEINE

PRODUCTION of caffeine and theobromine in Brazil during 1948 is expected to reach 120,000 to 150,000 kilos, despite low output in the early part of the year. The industry began in 1940, called into being to a great extent by war-time scarcity of the drugs. Originally the raw materials included coffee and maté as well as cocoa, but low-grade cocoa and cocoa cake now furnish the primary materials. Varying amounts of theobromine are converted to caffeine.

The principal manufacturer is a São Paulo firm and a contract effected in 1942 to supply about three-quarters of its output to the United States served to establish the concern's activities and influenced the growth of caffeine production in Brazil. The domestic requirements amount to 25,000 kilos, largely utilised in the form of aspirin compound tablets. 1947 exports were 86,000 kilos, and theobromine, 68,000.

## OLIVE AND TEASEED OILS

ACCORDING to a statement issued by the Olive Oil Importers' Association, to which reference was made just over a month ago (see *C. & D.*, June 26, p. 842) the trade should by now have received some 500 tons of olive oil. We understand that this oil is largely of Greek origin, although in view of recent negotiations with Spain limited quantities of Spanish oil (which is usually of better quality than the Greek oil) are being imported and may be included in the present allocations. Refined olive oil purchased in bulk from importers is now at the rate of 29s. 8d. per gall., whereas the former price was 51s. per gall. There is no statutory control of prices and distribution is unrestricted except that a licence is needed to sell by wholesale. The Association of British Pharmaceutical Industry has recommended rates for wholesalers ranging from 5s. 6d. for one pint to 37s. 6d. for a gallon. Retail prices are about 3s. 6d. per pint (5s. 6d. per lb.), or bottled, 5s. 6d. per reputed pint (13 fluid ounces). For teaseed oil the position is somewhat similar to olive oil with larger quantities now being imported and no restrictions on price or distribution, differing, however, in that no licence is required to sell at any stage.

The Ministry of Food is of opinion that supplies of refined teaseed oil which will be reaching shops "later in the year" will be at prices lower than those for olive oil.

## CONFERENCE SCIENCE PAPERS

THE programme of science papers to be read at the forthcoming British Pharmaceutical Conference, Brighton, is as follows:—

### Tuesday, August 31

11.30 a.m.—12.45 p.m.

(1) "The Stability of Ergometrine Preparations," by G. E. Foster and G. A. Stewart.

(2) "The Manufacture of Dry Extracts of Cascara and Krameria," by W. Mitchell and H. Deane.

(3) "The Stability of Adrenaline Solutions Part V. Further Observations on the Storage of Solutions in Hydrochloric Acid, Tartaric Acid and Ascorbic Acid," by G. B. West and T. D. Whittet.

(4) "A Note on the Stability of Penicillin in Lozenges," by N. H. Barnard and F. Hartley.

2.15—6 p.m.

(5) "The Sterilisation of Sodium Bicarbonate Solutions," by I. Michaels.

(6) "An Examination of the Source and the Quantitative Methods of Testing Pyrogen," by D. W. Wylie and J. P. Todd.

(7) "Biological Evaluation of the Purgative Activity of Senna Extracts," by H. O. J. Collier, E. C. Fieller and Sheila K. Paris. (Also a note by D. M. Bellis on the comparison of the biological with the chemical assay.)

(8) "The Effect of Diet on the Sensitivity of Mice to Insulin," by H. R. Rowlinson and Joan M. Lesford.

(9) "Para-aminosalicylic Acid: I, Analytical and Pharmaceutical Studies with Para-aminosalicylic Acid," by K. H. Oberweger, D. E. Seymour and D. Simmonite.

(10) "Para-aminosalicylic Acid: II, The *in-vitro* Tuberculostatic Behaviour of Para-aminosalicylic Acid and Related Compounds," by C. L. Goodacre, D. E. Seymour and R. W. Mitchell.

(11) "The Effect of Dimercaptol in Acute Iron Poisoning," by N. D. Edge and G. F. Somers.

(12) "The Pharmacology of the Diethylamine Salt of 3:5-Diiodo-4-Pyridone-N-Acetic Acid," by J. E. Edge, G. F. Somers and M. E. Fielding.

### Wednesday, September 1

9.30 a.m.—12.15 p.m.

(13) "Instability of Picrotoxin in Alka-

line Solution," by G. Bryan and P. B. Marshall.

(14) "Determination of Olive Stones in Powdered Vegetable Products," by T. E. Wallis and D. K. Santra.

(15) "Some Further Observations on Indian Santonica," by N. A. Qazilbash.

(16) "Indian Valerian—its Structural Characters," by T. E. Wallis and P. K. Sanyal.

(17) "The Spectroscopy of Riboflavin," by F. Wokes, Nora Baxter and C. Daglish.

(18) "Notes on Microbiological Analysis," by G. E. Shaw.

(19) "The Vitamin B Complex Content of Commercial Liver Extracts," by G. E. Shaw.

### Thursday, September 2

9.30—11 a.m.

(20) "Local Anæsthetics and Ester-hydrolysing Enzymes, III: The Inhibitory Action of Certain Local Anæsthetics on Cholinesterase," by K. Bullock.

(21) "The Chemical Determination of Aneurin in Tablets and Ampoule Solutions," by D. C. M. Adamson and F. P. Handisyde.

(22) "The Determination of Aromatic Di-amidines in Pharmaceutical Preparations. Part I: The Colorimetric Determination of Propamidine," by C. W. Ballard.

(23) "Some Analytical Characters of Iodinated Proteins and of Dried Thyroid," by W. Smith and R. K. Lewis.

A limited number of galley proofs of most of the papers listed above is to be available in advance. Members who are attending the Conference and who wish to receive copies of particular papers should apply to the general secretaries of the Conference 17 Bloomsbury Square, London, W.C.1, for proofs not later than August 16.

### Friday, September 3

9.30 a.m.—12.45 p.m.

**SYMPOSIUM SESSION:** "Modern Methods of Preservation of Medicinal Substances and Pharmaceutical Preparations." Opening papers:—

(1) "Preservatives in Solutions for Parenteral Use," by H. Davis.

(2) "Preservatives in Galenicals," by H. B. Mackie.

(3) "Preservatives and the Pharmaceutical Manufacturer," by A. G. Fishburn.

## DRUGS AND APPLIANCES UNDER N.H.S.

The Ministry of Health has issued a reminder that chemists are required under the National Health Service terms of service to dispense on dental prescriptions only the "prescribed drugs" listed in the third schedule to the N.H.S. (General Dental Services) Regulations, 1948 (see *C. & D.*, April 3, p. 445). For July and August prescriptions only, payment is to be made for drugs outside the list which have been dispensed, and for any drugs within it where ordered under a proprietary title alone. For September prescriptions, payment is to be made only for the "prescribed drugs."

Specifications for appliances newly added to the list of appliances for N.H.S. purposes have, with a few exceptions, been finally agreed and details are shortly to be sent to chemists through Executive Councils. Chemists are reminded that only appliances listed in the Third Schedule to the General Medical and Pharmaceutical Regulations, 1948 (see *C. & D.*, April 3, p. 441) may be supplied on a doctor's pre-

scription. For July and August prescriptions only, payment is to be made for the prescribed appliances for which no specifications have yet been published, according to the chemist's endorsement of the prescription. For July prescriptions only some prescriptions dispensed in good faith for items outside the list are also to be paid for.

### Hosiery and Trusses

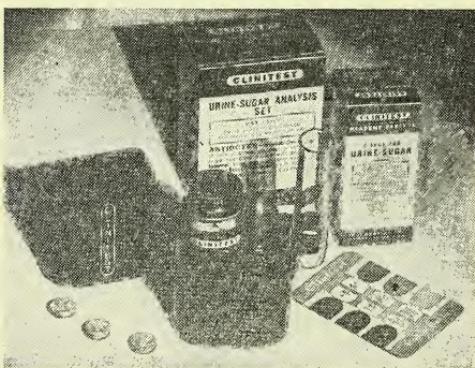
Prescriptions for elastic surgical hosiery and trusses, says the Ministry, should continue to be filled by the supply of standard grades or qualities (except where the prescriber has specified the particular grade or quality) until specifications are issued shortly. Any appliance which is not on the list of appliances may not be supplied to patients directly by chemists and manufacturers. (Such appliances may be obtained by the patient of a general practitioner through the hospital service or presentation of the customary introductory letter.)

## SELF-HEAT

THE Clinitest outfit illustrated, which is manufactured by the Ames Co., Inc., and imported under Board of Trade licence for distribution in this country by Don S. Momand, Ltd., 57 Albany Street, London, N.W.1, enables a one-minute copper-reduction test (similar to Benedict's) for detecting sugar in the urine to be carried out without the aid of external heat. The

## URINE TEST

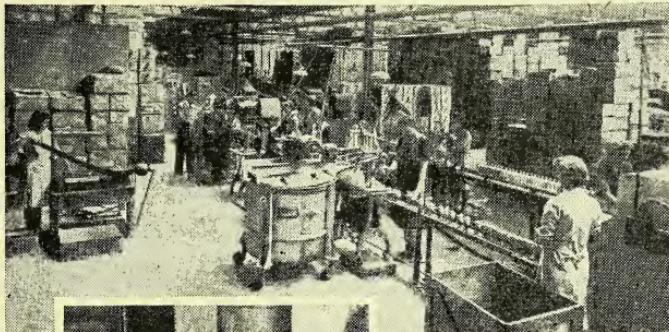
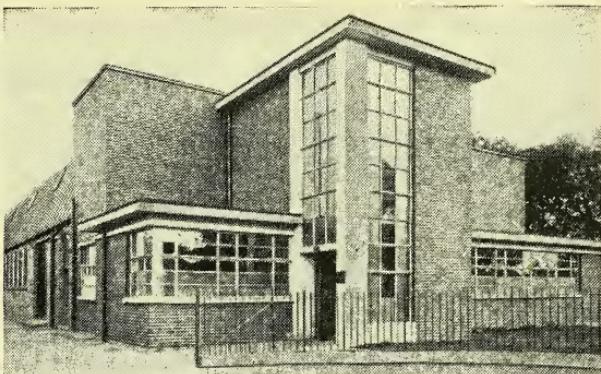
tests. Clinitest outfits have been in great demand in the United States and Canada but hitherto war-time restrictions and post-war difficulties have prevented their introduction to the British market. Manufacture in Britain is to commence at a new factory now in course of erection in South Wales. In the meantime, sufficient is being imported to permit general distribution in this country. Clinitest has been approved by the medical subcommittee of the Diabetic Association of Great Britain and is being advertised in the "Diabetic Journal." Advertisements booked in the "British Medical Journal," "Lancet" and "Practitioner" will supplement a direct mailing of all doctors in the British Isles. Inquirers from the general public are asked by the distributors to give the name and address of the chemist from whom supplies are normally obtained; details of the inquiry are sent to the chemist concerned. Illustrated leaflets are sent to chemists with every order, so that they can add their names and addresses and distribute them to customers for insulin, etc. Medical literature, including a reprint of an article from the "American Journal of Clinical Pathology" is available to chemists and doctors upon request.



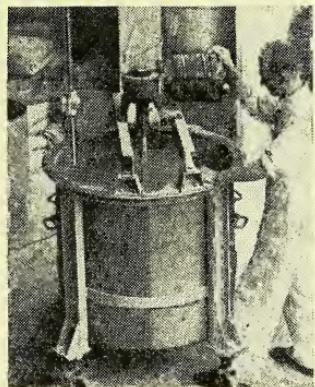
necessary heat is self-generated by the tablets, each of which contains the ingredients for one test. Sensitivity is equal to that of other standard copper-reduction

# MANUFACTURE OF HOUSEHOLD CLEANERS

A glimpse of the works of  
Scrubbs & Co., Ltd., London



At top: Entrance to the works.



At left: Conveyor-belt system in filling department.



Below, left: A mixing vessel.

Below, right: Labeling and finishing.

THE factory at Morden, Surrey, at which the eighty-year-old proprietary preparation Scrubb's cloudy ammonia and a more recently introduced range of household preparations are made, is a pleasant one-storey building surrounded by fields and trees on the Wimbledon Factory Estate. The processes of mixing and preparation are carried out at different levels according to the composition of the product. For those containing ammonia the mixing process takes place in large tanks high up in the roof. Others less gaseous are made in aluminium trolley tanks, and Scrubb's furniture cream is

made in a large electrically heated pan built on a gantry, the output being drawn off in tanks from under the gantry. Bottling and packaging are semi-automatic. The bottles, after passing through washing machines, are vacuum-filled, capped, labelled and cartoned. The output capacity is 1,000 doz. per production line per day. A count is made of the filled bottles at the cartoning stage by causing them to interrupt a beam and thus to make a record on a meter. For larger users some of the products are packed in bulk.

***Chemist Contractors give their views on—*****THE FIRST MONTH OF NATIONA**

THE first batch of replies received to a C. & D. questionnaire asking for information on the effect of the introduction of the National Health Service on their business are:

Locality	Increase in total Dispensing	Percentage		Changes in Character of N.H.S. Dispensing	Supp Drugs
		N.H.S.	Private		
Newport, Mon. ..	200%	95	5	Yes.	No
Leeds .. ..	100%	80	20	Higher ingredient cost. More ethicals and proprietaries.	No
London, S.W.16 ..	80%	95	5	No.	No
Buxton .. ..	No increase	80	20	No.	No
Cardiff .. ..	100%	80	20	More proprietaries prescribed.	No
Holyhead .. ..	200%	90	10	Increase in mixtures not previously called for.	No
Leicester .. ..	50%	60	40	No.	No
Barking (Essex) ..	70%	90	10	Rather more detailed prescriptions. More ethicals and asthma spray liquids.	No
Liverpool, 1 ..	—	98	2	No.	No
Liverpool, 7 ..	57%	85	15	Much higher proportion of branded lines. Doctors keeping more to N.H.S. Formulary.	No
Oxford .. ..	50%	75	25	No change.	No
Plymouth .. ..	60%	100	Nil	No change.	No
Birkenhead .. ..	104%	82	18	Higher proportion of formularies and proprietaries.	No
Horsforth .. ..	100%	99	1	Large increase in ethicals and proprietaries. Stock mixtures.	No
Edinburgh, 9 .. ..	25%	75	25	No.	No
Swindon .. ..	100%	99	1	Larger quantities.	No
London, N.W.6 ..	35%	75	25	No appreciable change.	No
Glasgow .. ..	20%	63	37	Type remains the same.	No
Blackburn .. ..	150%	95	5	Higher proportion of formulary preparations.	No
Oldham .. ..	50%	90	10	Very little difference.	No
Bangor .. ..	200%	99.5	.5	Ethical preparations and stock mixtures.	No
Nottingham .. ..	Slight	20	80	No.	No
Rhyl .. ..	120%	80	20	Many expensive proprietaries being ordered.	Whole-salers service slow.

# HEALTH SERVICE DISPENSING

Comments on any difficulties they have met with in carrying out the dispensing service sent to a selection of chemists' contractors are summarised below.

N.H.S. Working smoothly?	Has N.H.S. affected sales of Proprietaries?	General Remarks
Yes	Sales improved.	Likely to increase in the winter.
Yes	Not yet noticeable to any extent.	Increase in children's formulas.
Yes	Sales down a little—this may be seasonal.	Doctors prescribing chemical foods, etc., for children. Corresponding loss of counter sales.
Yes fairly well.	Drop of about 20 per cent. Not noticeably.	Slight increase in children's prescriptions.
Yes	Not so far.	Dispensing facilities after 7 p.m. inadequate.
Yes	No.	Small dispensing practice.
Yes	Too soon to be sure. Sales have declined slightly.	Private prescriptions now being copied on to N.H.S. forms. Large increase in prescriptions for women and children.
Yes fairly well.	No. Yes, public is going for "Free Medicines" and counter sales of proprietaries have dropped.	Proprietaries now on N.H.S. prescriptions. Doctors ordering more items on each prescription, some with six or seven items which generally include a proprietary the patient formerly brought. Some "scripts" have cost up to £3.
Yes	No.	During University vacation dispensing declines sharply.
Working smoothly	Almost negligible.	Marked increase in multiple-dose prescriptions.
Yes	No decline in sales.	Large amount of stock mixtures ordered should be remarked on.
Yes	No.	"Urgent" scripts increasing, due to local doctor starting evening surgery late.
Yes es, ex- cept for con- tainers."	No. No visible effect yet.	There were not many "dispensing" doctors in this district.
Yes	Not noticeable.	Decline in "dispensing cash turnover."
Yes Yes	No so far. Not noticed so far.	More 20-oz. mixtures. Early surgeries would eliminate need for rotas. Doctors ordering unusual proprietaries without stating maker's name.
Yes es : inter- months.	Decline of about ten per cent. Not noticeable so far.	No N.H.I. dispensing done. Expensive items and size of mixtures (20 and 32 oz.) being ordered need consideration.
Yes Yes	Slightly less. Difficult to assess at the moment	

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## INFORMATION WANTED

The Editor would appreciate information  
about supplies of the following items:

Field's anti-distemper vaccine  
Rosburgh's Lotio Crenalis

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L. CL AUGUST 7, 1948 No. 3572

## N.H.S. Dispensing in Operation

The selection taken from the first batch of replies to the C. & D. questionnaire on N.H.S. dispensing published in this issue

(180) shows that the general forecast of a substantial increase in the volume of dispensing has proved to be correct. The amount of increase, of course, varies according to the type of locality. Industrial areas show the highest figures with a marked preponderance of N.H.S. prescriptions, while some residential districts and health resorts notify a much smaller increase in the volume of dispensing with private prescriptions still of some importance. In most districts in Scotland additional dispensing is reported but, except in the large industrial areas, the private prescription is in the majority. Overall, according to the replies received from a cross-section of independent chemists in Great Britain (excluding Northern Ireland), seems that the volume of dispensing since N.H.S. was introduced on July 5 has increased by at least 60-70 per cent., and that, by and large, of the total, something like 80 per cent. is represented by N.H.S. prescriptions. If Scotland is omitted from this estimate the percentage of N.H.S. work would be as high as 90 per cent. In reply to our question "Have you noticed any change in the character of dispensing? e.g., higher proportion of formulary preparations)" many chemists report (a) higher ingredient cost, (b) more "ethicals" and proprietaries, (c) more dressings, (d) more formulary preparations and stock fixtures, (e) larger quantities ordered, in

some instances up to 32 fl. oz., (f) more items per prescription form, (g) cost of prescriptions generally higher than hitherto, (h) particular increase in number of prescriptions for women and children. A number of replies indicate that the public are giving a very literal interpretation to "free medicines for all" with prescriptions being handed in for ordinary household or domestic remedies which were previously over-the-counter sales; this may be, and probably is, a passing phase.

## Service Working Smoothly

With but very few exceptions the reports indicate no difficulties have so far been experienced in obtaining supplies of drugs and containers, but there is some apprehension on these points when the winter months come along. Wholesalers and manufacturers appear to be alive to the potential demands of the future and we believe there will be no breakdown of the service for these reasons even when it is working under severe pressure. The increase in dispensing has obviously thrown a greater strain on staffs of retailers but, so far, the service has not been impeded by any marked shortage of personnel.

It seems that the sale of packed proprietaries has not suffered as a result of the introduction of N.H.S. The slight decline noted in counter sales of these packed medicines has in most instances been fully compensated by the greater quantity now being prescribed. In the case of "ethical" chemists' reports indicate the probability of a general increase in the distribution of these products via N.H.S. prescriptions.

To the question "Is the transfer to N.H.S. settling down and working smoothly?" we have received an almost unanimous "Yes." It is evident that chemists had prepared themselves in advance to provide the best possible service to the public and are to be congratulated in taking N.H.S. in their stride in a most satisfactory manner.

If space permits we propose to publish a further selection of replies to our questionnaire in next week's issue. Meanwhile we express our thanks and appreciation to those chemists whose co-operation has enabled us to compile the first published report on the operation of N.H.S. dispensing.

## Schedules for N.H.S.

SINCE the National Health Service came into operation on July 5, some doctors and dentists have been causing embarrassment to chemists by writing prescriptions for items which are not permitted to be supplied. There is no restriction, of course, on the drugs that may be ordered by a doctor. The drugs that a dentist may order, however, are limited to those set out in the Third Schedule to the N.H.S. (General Dental Services) Regulations, 1948 (see *C. & D.*, April 3, p. 445), and the appliances that a doctor may order are limited to those set out in the Third Schedule of the N.H.S. (General Medical and Pharmaceutical) Regulations, 1948 (see *C. & D.*, April 3, p. 440). The position has obviously not been clearly understood by all prescribers, and chemists in some instances have supplied unauthorised items in good faith. The Ministry of Health, following negotiations with the National Pharmaceutical Union, has now agreed (see p. 178) to allow payment for non-scheduled drugs supplied on dentists' prescriptions dispensed during July and August, but payment for non-scheduled appliances supplied in good faith on doctors' prescriptions is to be made only for July. From September 1, only scheduled dental drugs will be paid for; from August 1, only scheduled appliances will be paid for. The onus of refusing to dispense a prescription which does not comply with the appropriate schedule thus rests on the pharmacist on penalty of non-payment, an unsatisfactory position to which the N.P.U. Executive has, with good reason, taken strong exception (see p. 174). Many members of the public, and some doctors and dentists, are under the impression that there are no limitations to what may be prescribed under N.H.S. Until the true position is clearly understood, our previous advice (see *C. & D.*, July 3, p. 16) holds good: chemists should adhere to the schedules or they may be out of pocket.

## Research in Germany

ATTENTION has been drawn to developments in industrial and scientific research in the British zone of Germany by an article published in the "Manchester

*Guardian*" on July 29. The "famous Kaiser Wilhelm Society for the Advancement of Science, suppressed for its participation in military research, has been revived, it states, under the name of Max Planck Society for the Advancement of Science. Among the activities of the new Society are researches on the basic and physical chemistry while the Society has also been granted a new institute for standardisation of medical products. The condition of industrial scientific research, the article states, is illustrated by the Leverkusen factory of the former German chemical trust, where a research staff of 400 to some 10,500 workers are employed and the tradition of "high pay and good conditions for chemists" maintained. In April 1948 an offer made by a British firm to two Leverkusen chemists of £600 a year was turned down. The "Manchester Guardian" correspondent's conclusion that "it was evident that German chemists regarded such salaries as an insult to their professional status and much preferred to remain at home even in the present difficult conditions," is significant.

## A Reservoir of Dispensers

A MEMORANDUM from the Ministry of Health draws attention to the position of doctors' dispensers now that the National Health Service has, by divorcing dispensing from prescribing under the Service, virtually rendered them redundant as a class. As is pointed out, many of the dispensers have passed the examination of the Society of Apothecaries for assistants in dispensing; others have been trained in the Royal Army Medical Corps or Royal Navy as sergeant compounders or as sick berth petty officers. Of the remainder some have had experience with doctors or in retail pharmacy. Provided they are "under the supervision of a pharmacist," they are permitted to dispense, and may be regarded as capable of dispensing medicines in both retail and hospital practice. Local offices of the Ministry of Labour and National Service have made special arrangements for handling disengaged dispensers, who, under the provisions of the Control of Engagement Order, will generally register for employment.

## PREVENTION AND TREATMENT OF SUNBURN

OMAS, physician at the skin department, International Temperance Hospital, London, writes ("The Practitioner," July, p. 49) that sunburn is a photochemical reaction to ultra-violet energy in the spectral range 290 to 3,200 Å. Local erythema which occurs to the rays produces may be followed, after heavy doses, by oedema and thermal flare, and later by desquamation, pigment formation and darkening of existing pigment. Severe sunburn is associated with the symptoms of shock. Blondes and sons with skins which pigment feebly are particularly susceptible to burns. Sweat provides some natural protection.

Among the prophylactic measures advised is avoidance of the sun, and the wearing of protective garments of brown or khaki, beige or red colour. Pharmaceutical protective preparations are of two kinds:— (1) "sun shade" preparations which screen skin against pigmentation as well as burn producing rays and, (2) sun-tan preparations which filter out the sunburn rays and allow only the longer pigmenting rays to pass. Dark coloured cosmetics, face powders and creams reduce the danger of moderate ultra-violet radiation to prevent suntan. Calamine lotion has screening value by forming a physical barrier. A lotion made to the following formula acts similarly:—

Zinc oxide	60 min.
Glycerin	1 oz.
Rose water	to 3 oz.

more effective protective of the "sun-shade" type may be made to the following formula:—

(a) Kaolin (in light powder)	300 min.
Calamine lotion	to 10 oz.
(b) Strong solution of ferric chloride	30 min.
Water	to 5 oz.

Pour (b) into (a), stirring hard. Stand for twenty-four hours and add 30 minimis (8 c.cm.) of arachis oil.

"Sun-screen" compounds which filter ultra-violet light are sometimes used for protective purposes. Para-aminobenzoic acid, for example, has an absorption band in the ultra-violet spectrum which embraces the dangerous rays, and certain workers regard this compound as effective against men such strong ultra-violet radiation as met with on glaciers or on the ocean. A cream containing 15 per cent. of para-aminobenzoic acid or a 10 per cent. solution of the compound in industrial spirit is recommended. A powdery white film

that is left on the skin when the alcohol evaporates from the solution should be rubbed in. The preparations should be applied every two or three hours during exposure. Solar urticaria and darkening of freckles cannot be prevented by the use of para-aminobenzoic acid. Many vegetable oils possess some screening action, sesame oil being possibly the most effective. Mineral oils are of no value. The application of vegetable oil before exposure is also helpful in keeping the skin supple. A "suntan" oil may be prepared as follows:—

Menthyl salicylate .....	10
Sesame oil .....	50
Liquid paraffin .....	40

For the treatment of sunburn, calamine lotion (aqueous or oily), or moist compresses of 1 per cent. aluminium acetate or weak lead lotion should be applied. The areas should be cleansed with arachis oil and not with soap or water. Measures should be taken to prevent infection, and if itching occurs an antihistamine agent should be given orally. Analgesic and proprietary ointments are best avoided, the author states, as they may contain skin irritants such as camphor or menthol.

## BAL AND LATENT TETANY

RUSSELL and colleagues at St. Bartholomew's Hospital, London ("Lancet," July 31, p. 169), report symptoms of tetany in a patient and thirteen volunteers receiving BAL. In the observations on the volunteers, who received between 0.75 and 6.11 mgm. BAL per kg. of body weight, hour-by-hour serum chemical studies were made. 10 per cent. benzyl benzoate in arachis oil was injected into controls. Positive Chvostek's signs (as seen in post-operative tetany) were observed in seven of those receiving BAL, one had a positive Troussseau's sign, and of the remainder five had cramps but one was free from symptoms. The serum studies suggest that tetany may be of a low magnesium and possibly of a low calcium type, either from the cations being rendered unavailable to the cells, or being removed by the BAL molecules. Calcium balance and magnesium balance studies are necessary to explain the metabolic disturbances. The dangers attendant on the use of BAL in the normal treatment of arsenic, gold and mercury intoxication, may be ignored if the patient is provided with a high calcium diet, magnesium sulphate, and an adequate amount of vitamin D.

## EXAMINATION RESULTS

THE following candidates passed the Chemist and Druggist Qualifying examination held in England and Wales in July:—

Adams, John Hubert, Shrewsbury  
 Allsop, Barbara Mary Celia, Cannock  
 Armstrong, John, Clitheroe  
 Baker, Robert Guest, Stockport  
 Barnett, Robert Bruce, Coventry  
 Beavan, George Arthur Edward, Deal  
 Binnington, Francis Richard, Jersey  
 Bishop, Bernard Rudolph, Canterbury  
 Bowskill, Michael John, Gloucester  
 Bray, Henry Norbert, Manchester  
 Brook, Jean, Brierley Hill  
 Brooks, Freda, Oldham  
 Brooks, Joan Mary, Mossley Hill  
 Chaloner, Leo Newman, Preston  
 Chapman, Beryl Jean, Oldbury  
 Chapman, Joan Mary, Bridport  
 Charles, Alfred James, Swansea  
 Cooper, Eric John, Coventry  
 Court, William Edward, Swindon  
 Craft, Harold Cecil, Cambridge  
 Daniels, Henry Leman, Newcastle Emlyn  
 Da Silva, Adalberto A. G., Aldgate  
 Davies, David Emlyn, Hull  
 Dennis, Arthur, Mansfield  
 Dowdeswell, Albert Victor Laban,  
     Bournemouth  
 Duffin, William Frederick, Aberbargoed  
 Dunstan, Frank, St. Agnes  
 Ellcock, Mary Zoe, Leicester  
 Ellis, Kenneth Edward, Leicester  
 Evans, Victor L. D., Southampton  
 Exelby, Alfred Stanley, Harrogate  
 Gill, Muriel Edith, Bournemouth  
 Green, Barbara, Ashton-under-Lyne  
 Griffiths, Derek C. L., Northampton  
 Griffiths, Henry James, Solva  
 Haining, Colin Grant, Liverpool  
 Harbour, John, Bognor Regis  
 Hawkeswood, Robert S., Stourbridge  
 Hiddleston, Alfred Walter, Coventry  
 Hobbs, Russell John, Bristol  
 Hodges, Phyllis Ruth, Exeter  
 Holmes, Gwendoline June, Amersham  
 Horrix, Edward Alfred, London  
 Houghton, Donald, Blackpool  
 Hunt, William Ralph, Scunthorpe  
 Hurst, Geoffrey, Worksop  
 Ingham, Arthur, Beaconsfield  
 Jebb, Jack, Chorley  
 Kealey, Eric Walter, Lincoln  
 Law, Jean, West Bromwich  
 Leedham, Anthony John, Coventry  
 Lewis, John Eric, Derby  
 Lewis, Patricia Annie, Bearsted  
 Lowther, Colin Edward, Huddersfield

Maltby, John Henry, Lincoln  
 Manger, Jean Marian, Bournemouth  
 Manning, Sidney George, Sutton  
 Mayo, Audrey Mary, Nottingham  
 Middleton, Arthur John, Lewdown  
 Milburn, Robert, Barry  
 Morris, John Henry, Shrewsbury  
 Newby, Frederick Lionel, Hemsworth  
 Newman, Rodney Charles, Fulham  
 Nicholson, Dennis Howell, Codnor  
 Oliver, Noel, Glossop  
 Orchard, Arthur William, Worcester  
 Overton, Anthony H., Woodhall Spa  
 Owen, William Elwyn, Cardiff  
 Peirce, Lillian Mary, Edgware  
 Pepper, Harold Alvin, Nottingham  
 Ponting, Mary Rosa, Torquay  
 Power, Ernest Emanuel, Cardiff  
 Proctor, Joseph, Hoghton  
 Quillin, Walter, Douglas  
 Ratcliffe, Reginald Arthur, Leicester  
 Redman, Anthony Hayden Fortescue  
     London  
 Regan, Helen D. C., Liverpool  
 Roberts, Thomas Gwylfa, Wrexham  
 Rudd, Leslie Harold, St. Albans  
 Savage, Margaret Joyce, Coventry  
 Slater, Bernard George, Wrexham  
 Slinn, Charles Norman, Sheffield  
 Smith, Elsie Muriel, Nelson  
 Smith, Graeme Dudley, Stoke-on-Trent  
 Smith, Kenneth, Spalding  
 Spencer, Margaret, Lytham  
 Stephens, Arthur Leslie, Swansea  
 Stonnard, Douglas Mark, Reigate  
 Strange, Noelle Gwynedd, Southampton  
 Tapper, Malcolm O. F., Southampton  
 Taylor, Ronald Evan, Ross-on-Wye  
 Temkin, Robert, Palmers Green  
 Thain, Roy H. G., Upper Norwood  
 Thomas, Evelyn, Rhondda  
 Thomas, Glyn Foster, Rhondda  
 Thorpe, Arnald Charles, New Malden  
 Unitt, Edwina Betty, Hereford  
 Uren, Joseph William, Plymouth  
 Walker, Richard, Barrow-in-Furness  
 Watford, Tony, Rainham  
 Watkins, Edward Ernest Arthur, Mache  
 Whitman, Ernest Robert, Ipswich  
 Wilcockson, Joseph Robin, Holymoorside  
 Willcox, Barbara Jocelyn, Stonehouse  
 Williams, Mary Patricia, Smethwick  
 Wilson, Peter James, Burton-on-Trent  
 Wilson, Robert John, Mansfield  
 Wood, Philip John Sidney, Smethwick  
 Woodcock, Mary Elizabeth, Wincanton  
 Woodthorpe, Alison Mary, Nottingham  
 Wright, Barbara Jean, Bristol

### Pharmaceutical Chemist Examination

The following satisfied the examiners in the Pharmaceutical Chemist examination:

Anderson, Alan, Manchester  
 Astbury, Stanley G., Stoke-on-Trent  
 Baker, Henry Gordon, Mill Hill  
 Bell, Dorothy Mary, Twickenham  
 Blades, Marjorie, Sutton  
 Bowyer, Thomas Linley, Birmingham  
 Brooks, Mabel, Lytham  
 Brown, Kathleen, Cardiff  
 Davies, David Reed, Cardiff  
 Denney, Margaret A. C., New Southgate  
 Dixon, Harry, Hove  
 Falkingham, Margaret Brook, Keighley  
 Filson, Harry Julian, Salford  
 Garman, Abe Jacob, Salford  
 Hartley, Margaret Barwell, Manchester  
 Hetherington, Ronald Loudon, Bristol  
 James, Marien, Rhondda  
 Jeffery, Robert Stanley, Maidstone  
 Jones, Merfyn, Cambridge  
 Knowles, Richard Brockbank, Balham  
 Millard, Bruce Frank Paul, London  
 Miners, Arthur Sydney, Leicester  
 Morgan, William Walter, Cardiff  
 Morris, Louis, Salford  
 Norton, Dennis Arthur, Birmingham  
 Painter, James F., Kingston-on-Thames  
 Peters, Ronald David, West Bromwich  
 Phillips, Reginald Gordon, Worthing  
 Poole, Harry Harley, Wolverhampton  
 Porter, Gordon Scott, Birmingham  
 Ridout, Cyril W. T., West Croydon  
 Shaw, George, Sheffield  
 Slack, Harry Repton, Shoreham-by-Sea  
 Thacker, John, Crockham  
 Wain, Sydney Frederick, Stockport  
 Weston, Rosemary Elizabeth, Enfield  
 Williams, Aldwyn, Ilford  
 Williams, Ethel M. E., Wandsworth  
 Williams, Maurice James, Torquay

### Scotland

The following candidates passed the examination in Scotland:—

Addyman, Clarence Henry, Bradford  
 Anderson, David Watson, Glasgow  
 Andison, Henry Horsburgh, Edinburgh  
 Atkinson, Barbara, Bingley  
 Balcombe, Charles John, Edinburgh  
 Barron, John William Ross, Culter  
 Benedetti, Luciano B. F., Perth  
 Blowes, Dorren, Keighley  
 Brooke, Betty, Dewsbury, Yorks  
 Brown, Bernard, Dundee  
 Brown, William, Musselburgh  
 Brown, William Robert Laing, Aberdeen  
 Burgess, Peter William, Shipley  
 Butler, James Charles, Balerno  
 Calvert, Ronald Stephen, Middlesbrough

Campbell, George, Dundee  
 Carnegie, Alastair Low, Glasgow  
 Carter, Matthew Rowling, Philadelphia,  
 co. Durham  
 Catto, George Pirie, New Deer  
 Chisholm, Andrew McG., Gorebridge  
 Claridge, Albert Frank, Leeds  
 Clark, Beryl Villiers, Hull  
 Cohen, John, Liverpool  
 Coombes, Edwin, Crewe  
 Costello, Patrick Joseph, Edinburgh  
 Cox, Sybil, Wallasey  
 Craig, Stanley Albert, Dundee  
 Crosby, Wilfred Peter, Harrogate  
 Davison, Mary D., Newcastle-on-Tyne  
 Donaldson, Colin McRae, Cults  
 Dove, Dennis George, Keighley  
 Dryden, Elsie Doreen, Wooler  
 Duerden, Margaret, Newbridge  
 Dye, Morven, Constance, Darlington  
 Earnshaw, Audrey, Illingworth  
 Eley, Kenneth, Old Basford  
 Fairweather, George D., Whitley Bay  
 Farquhar, James, Perth  
 Farthing, Reginald, Doncaster  
 Fergusson, John J. E., Edinburgh  
 Findlay, Henry, Sunderland  
 Flory, Reid, Ellon  
 Forbes, Mary Arnott Jeffrey, Coatbridge  
 Foreman, Marion, Morpeth  
 Fowler, Sylvia, Bradford  
 Fraser, Ernest, Aberdeen  
 Fraser, Sheila Isabella, Edinburgh  
 Gales, Alfred K., Newcastle-on-Tyne  
 Gardner, Clifford, Sunderland  
 Gee, Gladys, Bradford  
 Gerrard, David Alexander, Fraserburgh  
 Goodwin, Mary, Liverpool  
 Gorham, Stephen George, Liverpool  
 Graham, Katherine, Whitehaven  
 Gunn, Alexander William, Skene  
 Hall, James Phillip, Sunderland  
 Harper, Marshall, Aberdeen  
 Harte, William Francis, Aberdeen  
 Hobbs, Harold, Edinburgh  
 Holroyd, Frank, Shipley  
 Hood, Alexander, Glasgow  
 Humphreys, Ellis Jones, Liverpool  
 Hunter, Sheila Robertson, Dundee  
 Jobey, Winifred, North Shields  
 Johnson, Thomas, Bradford  
 Jones, Arthur Tecwyn, Liverpool  
 Jones, Clifford Dawson, Oswestry  
 Jones, Winifred Mary, Birkenhead  
 Joy, John Couston, St. Andrews  
 Kelly, Charles Taylor Cockburn, Largs  
 Kiddie, Bruce, Dundee  
 King, William, Eaglesham  
 Kinghorn, Alan Douglas, South Shields  
 Langhorne, Dennis, Edinburgh  
 Lee, Walter Thomas, South Shields  
 Leedam, Alan Stansfield, Nelson

Liddell, John, Glasgow  
 Limb, Darrell Bruce, Rotherham  
 Little, James Douglas, Carlisle  
 Lloyd, David Meirion, Ossett  
 Longden, Trevor Stork, Bradford  
 Lupton, Evelyn Mary, Otley  
 McIntosh, Douglas Leighton, Dundee  
 McKie, William, Glasgow  
 McNinch, Robert Cochrane, Ayr  
 McTaggart, Ian Anderson, Manchester  
 Mallinson, Jean, Edinburgh  
 Massie, John, Aberdeen  
 Milne, Alexander James, Inverurie  
 Mitchell, Kenneth A. S., Edinburgh  
 Molden, Joyce Lilian, Bradford  
 Monihan, James, Edinburgh  
 Moor, William John, Shiremoor  
 Morgan, Katherine Helen, Liverpool  
 Morrison, Alexander B. K., Dunfermline  
 Moss, Bruce William, Brighouse  
 Murray, Francis, Edinburgh  
 Nicol, Matthew Colquhoun, Glasgow  
 Norburn, Francis Ernest, Glasgow  
 Oliver, Marjorie, Nottingham  
 Pattison, Ernest Edward, Annfield Plain  
 Pennington, John William, Castleford  
 Phillips, Lewis, Liverpool  
 Pilling, Reginald, Southport  
 Pitt, Rhoda Kendal, Newcastle-on-Tyne  
 Powell, John Graham, Bradford  
 Price, Alun Goronwy, Glasgow  
 Pritchard, Agnes Denise, Chester  
 Prytherch, Eryl, Liverpool  
 Rawnsley, Irene, Sowerby Bridge  
 Rees, Glyndwr, Rock Ferry  
 Reid, David Gault, Alloa  
 Rennie, Francis Stewart, Dunfermline  
 Richman, Raphael Louis, Newcastle  
 Robinson, E. Valentine, Sunderland  
 Saville, Gwyneth Brooke, Bradford  
 Scott, Robert William Edward, Melrose  
 Sedgwick, Joseph William, Edinburgh  
 Shepherd, Thomas, Middlesbrough  
 Sherwood, Henry, Leeds  
 Simpson, John William, Edinburgh  
 Slevin, Mary Josephine, Wigan  
 Small, Margaret R. L., Dundee  
 Snowden, Arthur John, Bradford  
 Spillane, Maurice, Liverpool  
 Stacey, Joan, Bishop Auckland  
 Stephenson, David Allan, York  
 Stewart, William, Edinburgh  
 Swinbank, Joan, West Cornforth  
 Thomson, Thomas, Hamilton  
 Tidwell, John Gordon, Halifax  
 Topliss, Charles Eric, Halifax  
 Upton, Mary Christine, Nottingham  
 Wake, William Hall, Ashington  
 Walker, Ruth, Halifax  
 Watson, Mark Ernest, Doncaster  
 White, Jean, Bingley  
 Wightman, Helen Russell, Monkseaton

Wilkinson, John Henry, Liverpool  
 Wilkinson, Thomas Hubert, Liverpool  
 Williams, Griffith John, Liverpool  
 Williams, John, Liverpool  
 Wilson, Joan, Liverpool  
 Wilson, Sheila, Whitley Bay

## EMPLOYEES UNDER N.H.S.

A STATEMENT has been issued by the London advisory committee of the Association of Pharmaceutical Employees (a section of the Union of Shop, Distributive and Allied Workers) on the position of retail employee pharmacists under the National Health Service. The statement suggests that pharmacists employed in shops should welcome the new service, since it places most of the dispensing of prescriptions in the hands of pharmacists. Since about one half of all registered pharmacists are retail pharmacists, it is argued, half the service depends on them. Until now, employee pharmacists have had (under N.H.I.) to put up with conditions of remuneration entirely inadequate for the work and responsibilities. Under N.H.S. extra (rota) duties have been agreed unilaterally by the employers. "The new terms for contractors and the big increase in dispensing means prosperity for pharmacy; employee pharmacists ought to share in this." Representation on the Pharmaceutical Functional Council board is declared important to employee pharmacists because it is to deal with the conditions under which dispensing will be carried out in retail pharmacies. There follows a summary of what the A.P.E. has been doing on behalf of employee pharmacists. It has "consistently fought for employee pharmacists to be fully consulted on all matters connected with the new service, and for the representation at all levels of service"; it has made, and continues to make, representations to the Ministry of Health with a view to safeguarding the interests of employee pharmacists; it has secured the insertion of "fair wages" clause into chemists' contracts; and it is pressing for new minimum rates and conditions, "realistic based on the much more generous dispensing terms now being enjoyed by the employers." The statement concludes by urging employee pharmacists to link up with the A.P.E. and by announcing a conference at 17 Bloomsbury Square, London W.C.1, at 7.30 p.m. on Tuesday, August 10, when the speaker is to be M. F. C. Wilson (a member of the Pharmaceutical Society's Council). The conference is open to all employee pharmacists.

## NEW BOOKS

**Useful Drugs.** — Council of Pharmacy and Chemistry of the American Medical Association (editor, Austin Smith). 7 in. x in. Pp. 241. 15s. J. P. Lippincott Co., Sime House, Bedford Street, London, C.2. The fourteenth edition of a book signed to cover in note form a field of materia medica and therapeutics limited to the more important drugs is based on the thirteenth revision of the United States Pharmacopœia, the eighth edition of the U.S. National Formulary, and the 47 edition of "New and Non-official remedies." The monographs consist usually of a description of the drug, with emical (often the empirical) formula, properties, action, uses and dosage. A therapeutic index is included, and notes are given on types of pharmaceutical preparations.

**Industrial Experimentation.** — K. A.ownlee, M.A. 9 $\frac{1}{2}$  in. x 6 in. Pp. 169. 3s. M. Stationery Office, Kingsway, London, C.2. Though now in its third edition, this Ministry of Supply manual has not, rhaps, received the notice within the emical and pharmaceutical industries at its intrinsic importance warrants, possibly because it emanates from the Directorate of Royal Ordnance Factories—Explosives. Yet it is only necessary to give one short quotation to demonstrate that the latter is close to the problems of those industries:—

Suppose we wish to compare four "treatments." We are using "treatment" in a generalised sense: the four treatments may, e.g., be literally four fertiliser treatments for wheat, or four diets for rats, or four temperatures for a nitration process, or four concentrations of plasticises in a plastic.

The discussion is upon the interpretation of experiments in the face of variable factors which cannot (in the way that laboratory experiments usually can) be controlled. For evidently the scale of an industrial experiment is so vast that an army of supervisors would be required to keep them under control; or the controls may be possible but only at the expense of upsetting production. How to overcome these and similar difficulties is explained in strange terms like replication, randomised blocks, lattice squares, grouped frequency distributions and the like—yet they need not alarm, for "the subject is treated entirely from the practical point of view. Theory is at a minimum and the only mathematics involved simple arithmetic." Even if the simplicity of the arithmetic is relative rather

than absolute, mastery of the principles expounded in the manual should make possible an altogether more valuable scheme of experimentation suitable for an industrial scale.

**Chemical Synonyms and Trade Names.** —Fifth edition. 9 in. x 6 in. Pp. 558. 50s. Technical Press, Ltd., Gloucester Road, Kingston Hill, Surrey. Owing to the death of the original author, Mr. W. Gardner, the edition was completed by Mr. E. I. Cooke, M.A. Though entirely re-set, the work is little changed in general layout, with few alterations in style. In order to cope with new entries, without making an unwieldy volume, many materials universally known outside the chemical world have been excluded. The work now contains approximately 28,000 definitions and cross-references; the names given comprise trade names employed by individual firms; trade names arising from use in particular industries or from the locality of preparation or discovery; and generic names for materials having individual registered trade names.

## MEDICAL ABSTRACTS

**Sulphadiazine with Streptomycin.** —Spink and others ("Journal of the American Medical Association," February 7, p. 382) found that treatment with both streptomycin (0.5 gm. every six hours for seven days) and sulphadiazine (4 gm. initially, and then 1 gm. every four hours for two to three weeks), gave more satisfactory results in human brucellosis than any other method.

**Penicillin Sensitisation.** — Winner ("Lancet," May 1, p. 674) describes experiments in which the sensitivity to penicillin of a relatively resistant staphylococcus was increased some two-hundredfold by growing it for four hours in contact with a sensitive streptococcus. The apparent transference of sensitivity, he suggests, may depend on some highly labile property of the bacterial cell.

**Myanesin in Epilepsy.** —The similarity of myanesin ( $\chi$ : $\beta$ -dihydroxy- $\gamma$ -(2-methyl-phenoxy)-propane) in its immediate effects to those of thiopentone and nitrous oxide led Hunter and Waterfall ("Lancet," March 6, p. 366) to investigate its action in hyperkinetic states. They found that intravenous injections would check epileptic fits within thirty seconds; they suggest that the drug acts centrally.

## CORRESPONDENCE

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

### The Society and its Members

SIR,—May I ask Mr. Bailey, who has replied to my letter "N.H.I. into N.H.S." (*C & D.* July 24, p. 127), how many complaints of the professional work of pharmacists have been made over many years? Very few! The Pharmaceutical Society has become more and more remote from pharmacy as a living while National Health Insurance never has paid its way. Many professional operations, including much first aid and many minor services, are willingly performed free by pharmacists. If, as Mr. Bailey says, the "Pharmaceutical Society favours the atmosphere of the hospital laboratory," this is over-stressing bulk dispensing and the work of only a small percentage of pharmacists. Finally, there is arising a real danger of the establishment of communal dispensaries run by the State now that a larger return is made to proprietors of pharmacies for their time and skill. Even now, however, the qualified man is paid only a fraction per hour of the rates for other professional men. Perhaps the Pharmaceutical Society can help us improve this?

Yours faithfully,  
MIDDLE-AGED PHARMACIST.

### Three Weeks of N.H.S.

SIR,—As a hospital man attracted back to retail by the prospects of giving a real pharmaceutical service, I had but a month to learn my way around the N.W.F. and my new business, before the first rush started. After a consultation with my local doctor I discovered that he was doing as much dispensing as I was. I naturally laid in the necessary stocks to cope with the expected increase after July 5, but on one aspect of his dispensing he failed me miserably, for on the appointed day a steady stream of anxious mothers with their ailing babes soon depleted my stocks of aqua carui and 2-oz. vials. Mine is a working-class area, and another new type of patient were the mothers themselves. These women have had little time and less money for medical attention in the past. Now they are coming forward to claim their rights under the new Act. Many pharmacists prophesied a reduction in the sales of both patent and packed goods, but this has not been noticeable as yet.

Rather it seems that the G.P.s are entering the patent field with new vigour. Already I have dispensed, or confirmed the dispensing of a wide range of well-known proprietary medicines. Mixtures are growing to 16-oz. and 20-oz. bottle while 8-oz. ointments have become common that I have ordered cartons which to supply them. One pound rolls of wool and white lint, and 100 lots of tablets are also becoming frequent. Some doctors have adopted the expedient of reducing the dose of medicine from half an ounce to two drachms in their efforts to discourage too frequent attendances.

Yours faithfully,  
B. A. WILLIAMS.  
Brentford, Middlesex.

### RECENT RESEARCH

**Uranium Derivatives.**—In a report (B.R.10) on organic uranium compound obtainable from H.M. Stationery Office is an enlarged print from a microfilm record of the acetyl acetone derivative  $U(C_5H_7O_2)_2$  is given as the least unstable. The compound sublimed at  $150\text{--}160^\circ C.$  in a high vacuum, giving dark green crystals. There was slight decomposition.

**Dimethyl Ether of *d*-Tubocurarine.**—Collier, and others ("Nature," May 22, p. 817) have compared the effectiveness of lethal doses of the dimethyl ether of *d*-tubocurarine iodide when injected intravenously, with those of *d*-tubocurarine chloride. In rabbits the derivative was found to have many times the intensity of action of *d*-tubocurarine; in rats, the effects were similar, but less marked; in mice the myoneural function was slightly less sensitive to the new compound than to *d*-tubocurarine chloride.

**New Antibacterial Diamines.**—Wien and Harrison ("Lancet," May 8, page 711), find that 2 : 2'-dibromo propamidine and 2-iodohexamidine are more active against bacteria, but not against fungi, than the unhalogenated parent compounds. Against certain pathogenic strains of streptococci and staphylococci obtained from wound they were active in a dilution of 1 in 4 to 6 million. Against Gram-negative organisms the compounds were greater in bacteriostatic action than penicillin, but less than streptomycin. Activity was little affected by the presence of serum.

# STOCK EXCHANGE PRICES

Quotations are the average for the day stated. New securities are shown in italics.

£1 unit unless otherwise stated	June 30 1948	July 30 1948	£1 unit unless otherwise stated	June 30 1948	July 30 1948
	s. d.	s. d.		s. d.	s. d.
bright & Wilson, ord., 5s. ...	29 3	27 9	Idris, "A" ord. ... ... ...	38 9	38 9
len & Hanburys, pref'd. ord. 7% cum. ... ... ...	31 3	31 3	Ilford, ord. stock, 5s. ... ...	25 0	25 0
umber Chemical, ord., 2s. ...	9 6	9 6	Imperial Chemical Industries, ord.	46 9	45 7½
umber Chemical, 5% cum. pref.	25 0	25 0	Imperial Chemical Industries, 7% cum. pref. stock ... ...	37 6	37 6
cotts Pharmacies, ord. stock, 5s.	10 7½	10 7	International Sponge Importers, ord. stock, 5s. ... ...	6 3	5 9
pro, ord. stock, 5s. ... ...	37 6	36 3	Kent, G. B., & Sons, 5% cum. ptpg. pref., 12s. 6d. ...	17 6	17 6
echam Group, def'd., 2s. 6d. ...	18 0	18 9	Kershaw, A., & Sons, ord., 1s. ...	2 1½	2 1½
echam Maclean Holdings 4%			Kleeman, O. & M., ord. stock, 1s.	22 6	23 0
red. cum. pref. ... ... ...	21 3	21 3	Laporte Chemicals, ord. stock ...	20 7½	20 7½
ake, Roberts, ord., 5s. ...	30 7½	28 9	Lever Brothers & Unilever, ord.	50 0	47 6
ots (Eastern) "A" pf'd. 6% cum.	31 0	31 0	Lewis & Burrows, ord. stock ...	30 0	30 0
ots (Northern) "A" pf'd. 6% cum.	31 0	31 0	Lewis & Peat, ord., 1s. ...	2 7½	2 7½
ots (Western) "A" pf'd. ord. (7% non-cum.) ... ... ...	37 3	37 3	Liebig's Extract of Meat, ord., £5	310 0	290 0
ots Pure Drug, ord., 5s. ...	49 0	49 0	Macleans, 4% red. cum. pref. ...	20 0	20 0
rax Consold., def'd. ord. stock	56 3	57 6	Mellin's Food, 6% cum. pref. ...	9 0	9 0
itish Alkaloids, ord., 1s. ...	10 3½	6 6	Milton Antiseptic, ord., 10s. ...	25 0	25 0
itish Chemicals & Biologicals, 4% cum. red. pref. ... ...	22 0	22 0	Mono Containers, 5s. ... ...	16 10½	16 10½
itish Drug Houses, ord., 5s. ...	8 0	8 6	Monsanto Chemicals, ord., 5s. ...	58 9	57 6
itish Emulsifiers, 2s. ... ...	1 0	1 0	Pears, A. & F., 5% deb. stock, irred. ... ... ...	130%	130%
itish Glues & Chemic., ord., 4s.	19 0	19 0	Potter & Clarke, ord. 1s. ...	4 6	4 6
itish Industrial Plastics, ord., 2s.	6 6	6 6	Reckitt & Sons, ord. stock ...	105 0	126 3
itish Optical & Prec. Eng., 5% cum. ... ... ...	98%	96%	Rolls Razor, pref'd. ord., 10s. ...	25 0	25 0
itish Oxygen Co., ord. stock ...	100 0	96 3	Sangers, ord. stock, 5s. ...	32 6	29 9
itish Xylonite Co., ord. stock ...	105 0	105 0	"Sanitas" Trust, ord., 10s. ...	25 0	25 0
rt, Boulton & Haywood, ord.	26 3	27 6	Savory & Moore, 5½% 1st red. cum. pref. stock ... ...	24 0½	24 0½
sh (W. J.), & Co., ord.	85 0	85 0	Sherley, A. F. & Co., 8% cum. pref'd. ord. ... ...	25 7½	22 6
mwal, ord. ... ... ...	21 3	21 3	Smith & Nephew Associated Cos., ord., 4s. ... ... ...	16 6½	16 6½
oper, McD. & Robertson, ord.	39 4½	38 9	South African Druggists, ord. 5s.	22 6	23 3
w, (P.B.) & Co., ord. stock, 4s.	19 3	17 3	Southalls (Birmingham), stock, 5s.	40 0	40 0
w & Gate, ord. stock, 1s. ...	2 10½	2 9	Sternol, 8% cum. ptgp. pref'd. ord., 10s. ... ...	15 0	14 4½
osfield, J., & Sons, 5% cum. pre-pref. ... ... ...	26 3	26 3	Stevenson & Howell, ord. stock, 5s.	26 0	25 6
ssons Sons & Co., ord. stock, 2s.	22 0	20 0	Taylor's, Cash Chemists, London, 6% cum. pref. ... ...	28 9	29 4½
stillers, ord. stock, 4s. ...	26 3	26 7½	Taylor's, Cash Chemists, Trust, 6% cum. pref. ... ...	28 9	29 4½
barry Perfumery Co., ord., 1s.	4 6	4 7½	Taylor's Drug Co., 7% "A" cum. pref. ... ...	32 6	32 6
unlop Rubber Co., ord. stock ...	70 3	70 0	United Glass Bottle, ord. stock ...	71 3	70 0
ger Foods Co., ord., 2s. ...	8 0	8 0	Veno Drug Co., 12% cum. pref'd. ord. ... ... ...	41 10½	40 0
o Proprietaries, 5½% cum. pref.	25 6½	26 7½	Virol, ord. ... ... ...	75 0	75 0
cryl, stock, 2s. ... ... ...	6 3	6 3	Viscose Development Co., ord. stock, 5s. ... ... ...	10 6	10 6
ans Medical Supplies, ord. stock	38 9	36 3	Vitamins, 1s. ... ... ...	5 0	5 0
eld, J. C. & J., ord., 10s. ...	28 9	28 9	Wesley, Harold, 5s. ... ...	15 0	15 7½
sons, ord. stock ... ... ...	57 6	58 0	Whites (Timothy) & Taylors, ord., 5s. ... ... ...	36 3	35 0
sons, 4½% cum. pref. ... ...	24 6	24 0	Whites (Timothy) & Taylors, 7½% cum. pref. ... ...	37 6	37 6
alloway, P. H., ord., 2s. ...	5 3	4 9	Wright, Layman & Umney, 7% cum. pref. ... ...	31 3	31 3
lette Safety Razor Co. shares (no par value) ... ... ...	\$54.50	\$54.00	Yardley & Co., ord., 4s. ...	58 9	58 9
axo Laboratories, ord. stock, 10s.	310 0	330 0	Yardley & Co., "A" ord., 4s. ...	58 9	58 9
axo Laboratories, 8% cum. pref'd. ord. stock, 10s. ... ...	20 3½	20 3½			
orlicks, stock, 5s. ... ... ...	32 6	29 4½			
ovenden, R., & Sons, 7% cum. "A" pref. ... ... ...	26 3	26 3			

## TRADE REPORT

**Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.**

### 28 Essex Street, W.C.2, August 4

BUSINESS in PHARMACEUTICAL and FINE CHEMICALS has been on a moderate scale. Export inquiry is still very good and in many instances is increasing; the home trade is improving slowly and more orders are now being received for winter season's requirements. The principle price change during the week has been in CAFFEINE; the ALKALOID has been reduced in price by 5s. per lb. and similar decreases are noted for the SALTS. A previous reduction in these products occurred in April. One maker advises slight increases in the rates for IRON PHOSPHATE, SACCHARATED IRON PHOSPHATE, B.P.C., FERROUS SULPHATE and SULPHURATED POTASH owing to advancing costs of production.

At the reopening of the markets for CRUDE DRUGS after the holiday closing prices were nominally unchanged. A fair inquiry is reported for ERGOT which is now in small compass on the spot. Parcels of Portuguese are offered at up to 4s. 4d. per lb. and holders of Russian material have been asking 4s. 6d. IPECACUANHA continues quiet at former values. Quotations for MENTHOL on spot are inclined to be lower in the absence of any appreciable inquiry. SENEGA is in better request; quotations on the other side are at \$2, c.i.f., European ports. Indian SEEDS continue firm.

Business in ESSENTIAL OILS has been fair with quotations for most commodities showing very little change on the week.

### U.S. Drug and Chemical Report

New York, July 30

PRICE adjustments on the FINE CHEMICALS market over the past week included a \$2 per 100 kilos cut in the price of ARGOLS, a three cents advance in the cost of CALCIUM LACTATE and a ten cents increase by a major producer of granular IRON AND AMMONIUM CITRATE. The price of argols becomes \$18.00 per 100 kilos; calcium lactate was advanced to 41 cents per lb. in bulk; the new prices for both green granular N.F. and brown granular U.S.P. iron and ammonium citrate range from 53 to 55 cents per lb., the inside figure applying to 500-lb. lots and the higher figure to less than 500-lb. lots. The fine chemical and drug market otherwise showed little development last week. Production of GLYCERIN, absolute basis, amounted to 16,915,000 lb. in June compared with 15,482,000 lb. in the previous month. Factory and warehouse stocks, not on an absolute basis, totalled 51,885,000 lb. on June 30, or 2,122,000 lb. more than the total on May 31.

Despite continual reports that the CRUDE DRUGS market has found its post-war price level, numerous declines were noted during the past week. GUM ACACIA, CASCA SAGRADA, SARSAPARILLA and CHAMOMILE FLOWERS were among the items marked down. On the other hand, KARAYA was 5 cents per lb. at 29 cents for the No. 1 grade due to higher prices at the prime centre. Business in CARNAUBA WAX has virtually at a standstill following the announcement that minimum prices were being established in Brazil.

There was little activity on the ESSENTIAL OILS market last week and more price reductions were noted. Several aromatic products also became cheaper although this was due not to a plentiful supply but solely to lack of demand.

### Exchange Rates on London

Bank of England fixed rates at the opening on Wednesday morning were:—

Centre	Quoted	August 4
*Alexandria ...	Piastres to £	97½—97½
Amsterdam ...	Florins to £	10.68—10.70
*Bombay ...	Pence to rupees	1·51½—1·61½
Brussels ...	Frances to £	176½—176½
Copenhagen ...	Kroner to £	19.32—19.30
Dutch East Indies	Florins to £	10.68—10.70
Dutch West Indies	Florins to £	7.59—7.51
*Hong Kong ...	Pence to \$	1·21½—1·31½
Lisbon ...	Escudos to £	99.80—100.2
Montreal ...	Dollars to £	4.02½—4.03½
New York ...	Dollars to £	4.02½—4.03½
Oslo ...	Kroner to £	19.98—20.02
Paris ...	Francs to £	863.4—864.6
Rio de Janeiro ...	Cruz to £	75.4416
*Singapore ...	Pence to \$	2·3½—2·4½
Stockholm ...	Kronor to £	14.47—14.50
Zurich ...	Francs to £	17.34—17.36

\* Free market rates

### Pharmaceutical Chemicals

ACETIC ACID.—The controlled maximum prices per ton are: B.P. (33 per cent. 1 ton or over, £36; 10 cwt. but less than ton, £37; 4 cwt. but less than 10 cwt., £3 delivered buyer's premises. 80 per cent pure, is £30 per ton and 98-100 per cent (commercial glacial), £43 per ton more than the rates for B.P. For deliveries of less than 4 cwt. there is no maximum price.

CAFFEINE.—Makers' advise reductions in prices with effect from August 3. New rates per lb for 1-cwt. lots are: ALKALOID anhydrous, 35s. 6d., and B.P. 33s. 6d.; CITRATE, 22s.; SODIUM BENZOATE, B.P. 22s. 6d.; SODIUM SALICYLATE, B.P.C. 23s. 3d.; SODIUM IODIDE, 26s. 56-lb. lot are 1s. per lb. more than above rates 28-lb., 1s. more than for 56-lb.; 7-lb., 1s. more than for 28-lb.

**DIGITOXIN.**—Current quotations are in the region of 110s. per gm.

**EMETINE.**—Makers' rates per oz. are as follows: HYDROCHLORIDE, 1 oz., 202s.; 4 oz., 195s.; 16 oz., 192s. 6d.; 32 oz., 190s. SMUTH IODIDE, 1 oz., 101s. 6d.; 4 oz., 9s.; 16 oz., 98s. 6d.; 32 oz., 97s.

**EPHEDRINE.**—Quotations for the ALKALOID are at from 10s. 6d. to 12s. per oz., as quantity and seller. HYDROCHLORIDE is quoted at from 7s. 3d. to 8s. and SULPHATE 8s. to 8s. 6d. per oz.

**GLYCEROPHOSPHATES.**—Makers' list prices per lb. are as follows: CALCIUM OXIDE, 10s. 6d.; IRON SCALE, 11s. 9d.; ID, 20 per cent. (B.P.C.) 8s. 3d.; MAGNESIUM (INSOLUBLE), 10s.; MAGNESIUM OXIDE, 19s. 3d.; MANGANESE, 24s. 3d.; TASSIUM, 50 per cent., 5s. 11d.; 75 per cent., 7s. 9d.; SODIUM, 10s. 9d.; 50 per cent., 4s. 7d.; 75 per cent., 5s. 8d. Quantities of 7 lb., 6d. per lb. less than above; other quantities in proportion.

**HOMATROPINE.**—Makers' prices per oz. are as follows (prices per gm. in brackets): KALOID—1 oz., 97s. 6d.; 4 oz., 92s. 6d.; oz., 87s. 6d. (4s.). HYDROCHLORIDE, DROBROMIDE and SULPHATE—1 oz., 75s.; 7s., 70s.; 16 oz., 65s. (3s. 2d.).

**HYDROQUINONE.**—Bulk rates are as follows: 10-cwt., 9s. 6d.; 5-cwt., 9s. 9d.; wt., 10s.; 28-lb., 11s.; 14-lb., 11s. 3d.; b., 11s. 6d. per lb. Carriage paid in U.K. **IODINE PREPARATIONS.**—Makers' prices per lb. for the home trade are as follows: TASSIUM IODIDE, B.P.—1 cwt., 11s. 1d. DIUM IODIDE, B.P.—28 lb., 12s. 1d. DOFORM, B.P.—28 lb., powder, 15s. 7d.; stals, 17s. 7d. RESUBLIMED IODINE, P.—1 cwt., 12s. 8d. Orders of 28 lb. upwards may be made up with assorted preparations at schedule rates. Packages extra. Contracts may be booked for cwt. and over of assorted preparations for delivery as required within three months or rise and fall clauses. Special rebate 4d. per lb. allowed on quantities of 5 t. in one delivery, or on contract for every within three months.

**MAGNESIUM OXIDE (B.P. LEVIS).**—Prices in the home trade (per lb.) are as follows: Containers in brackets, 28 lb. to 1 t., 3s. 5d. (1-lb.); 3s. 4d. (2-lb.); 3s. 3½d. (lb.); 3s. 2½d. (7-lb.); 3s. 2d. (14-lb.); 1d. (28-lb.) per lb. Larger quantities range from 2s. 4½d. to 2s. 6d. per lb. in 1-lb. packages, as to quantity, carriage paid.

**MAGNESIUM TRISILICATE (B.P.).**—Prices per lb. in the home trade are unchanged. Containers in brackets. 28 lb. to 1 cwt., 4d. (1-lb.); 4s. 3d. (2-lb.); 4s. 2½d. (lb.); 4s. 1½d. (7-lb.); 4s. 1d. (14-lb.); (28-lb.) per lb. Bulk quantities range from 3s. 2d. to 3s. 4d. per lb. in 28-lb. packages, as to quantity, carriage paid.

**PHENOL.**—Maximum price for crystals in the home market is 11d. per lb., in 1-ton lots in drums (returnable), delivered.

**PHOSPHATES.**—Makers' rates per lb. for SODIUM are as follows: B.P. granular, 1 cwt., 7½d., 28 lb., 9d.; feathery, 1 cwt., 8½d., 28 lb., 10d.; exsiccated, B.P.C., 1 cwt., 2s. 2d., 28 lb., 2s. 6d.; ACID, B.P. crystals, 1 cwt., 1s. 9d., 28 lb., 2s. POTASSIUM, granular, 4s. 2d.; powder, 4s. 5d. per lb. AMMONIUM, B.P.C., 1 cwt., 2s. 6d.; 28 lb., 2s. 10d. per lb. PHOSPHORIC ACID, B.P. (Concentrated), is priced at from 1s. 2d. to 1s. 3d. in carboys, and from 1s. 5d. to 1s. 9d. per lb. in winchesters.

**POTASSIUM ACETATE, B.P.**—Fine granular is 2s. 1½d. per lb. in 1-cwt. lots.

**POTASSIUM PERMANGANATE.**—Makers' rates are as follows: B.P. (in 1-cwt. drums), 1 cwt. and over, 1s. 8½d. per lb.; 3 cwt. and over, 1s. 8d. TECHNICAL (in 1-cwt. drums), 1 cwt. and over, 166s. 3d. per cwt.; 3 cwt. and over, 161s. 9d.; 5 cwt. and over, 159s. 3d.; 1 ton and over, 156s. 9d.; 4 tons and over, 154s. 3d. TECHNICAL (in 5-cwt. drums), 5 cwt. and over, 156s. 9d. per cwt.; 1 ton and over, 154s. 3d.; 4 tons and over, 152s. Terms, net, carriage paid to nearest station (or port of departure for Northern Ireland), containers extra and returnable.

**PYROGALLIC ACID.**—Quotations for CRYSTALS are: 1 cwt., 18s. 6d. per lb.; 56 lb., 19s.; 28 lb., 20s. RESUBLIMED is 22s. 3d. per lb. in 1-cwt. lots.; 56-lb., 22s. 9d.: other quantities in proportion.

**SALOL, B.P.C.**—Current quotations for quantities of 28 lb. to 1 cwt. are from 9s. 4d. per lb., according to pack. Prices for larger quantities are around 7s. 6d. to 8s. per lb.

**SODIUM ALGINATE.**—Current rates per lb. are as follows: 7-lb. lots, 7s. 3d.; 28-lb., 7s.; 1-cwt., 6s. 6d.

**SODIUM SALICYLATE.**—Makers' price for 1 cwt. is 2s. 7d. per lb.; resellers' rates per lb. (containers in brackets) in the home market as follows: 28 lb. and under 1 cwt., 3s. 4d. (7-lb.); 3s. 3d. (2-lb.); 3s. 2½d. (4-lb.); 3s. 1½d. (7-lb.); 3s. 1d. (14-lb.); 3s. (28-lb.). Net one month.

**SULPHANILAMIDE.**—Prices are steady as follows: 5-cwt., 6s. 3d.; 1-cwt., 6s. 6d.; 28-lb., 6s. 10d.; 14-lb., 7s.; 7-lb., 7s. 9d. per lb., net; packing extra.

**TARTARIC ACID, B.P.**—Makers' quotations per cwt. are: 1-cwt. lots, 218s.; 2-4 cwt., 216s.; 5-9 cwt., 214s.; 10-cwt. and over, 212s., delivered. In good request.

**THYMOL, B.P.**—Supplies continue short. Nominal prices from maker are from 17s. 9d. to 18s. 6d. per lb.; 20s. per lb. asked for small quantities.

**VANILLIN.**—Current rates are: 5 cwt., 22s. per lb.; 1 cwt., 22s. 3d.; 56 lb., 22s. 6d.; smaller quantities, 22s. 9d. per lb. Supplies from maker are on quota.

## Crude Drugs

**ACONITE.**—Indian is steady at 300s. per cwt. on the spot.

**AGAR.**—Japanese strip is offered at from 17s. 6d. to 18s. 6d. per lb., duty paid; forward, 15s. to 16s., c.i.f.

**ALOES.**—Cape is quoted at 120s. per cwt.; forward, 116s. to 120s., c.i.f., as to quality. Curaçao in boxes is quoted at 210s. per cwt.; shipment, 200s., c.i.f. Socotrine, 160s. to 180s. per cwt., spot.

**ANTIMONY.**—99.6 per cent., regulus, £190 per ton, delivered; 99 per cent., £180; 70 per cent. crude, £150.

**ARECA NUTS.**—Ceylon is quoted at from 65s. to 67s. 6d. per cwt., spot; to arrive, 50s., landed.

**ASAFETIDA.**—Persian block is offered at £22 10s. to £24 per cwt., spot; Indian, £15.

**BALSAMS.**—*Canada* is offered at 20s. per lb., spot. *Pará Copiba*, soluble, is valued at 5s. per lb., spot. *Peru*, San Salvador, 5s. 6d., duty paid. Prices of Tolu are lower at 17s. 6d. per lb.

**BAY LEAVES.**—Quotations are unchanged at 11d. to 1s. per lb., duty paid.

**BENZOIN.**—Sumatra block, spot, from £15 to £17 per cwt., as to quality.

**BITUMEN.**—Metal is quoted at 11s. per lb. for quantities of 5 cwt.

**BUCHU.**—New-crop, short rounds, spot, 4s. per lb.; shipment, 3s. 8d. c.i.f.; ovals, old-crop, from 3s. 9d., spot.

**CAMPHOR.**—Chinese tablets offered at 9s. 9d. to 10s. 9d. per lb., duty paid; refined powder (B.P.), 8s. to 8s. 6d., with B.B. grade, 7s. 6d.; crude powder, 6s. 6d.

**CANTHARIDES.**—Spot quotations for Chinese are from 9s. 6d. to 10s. per lb., duty paid.

**CARDAMOMS.**—Mangalore half-bleached A's are 9s., spot; B's, 8s., seeds, 7s. 9d. Aleppy seeds, 8s. 6d. to 9s. per lb. Aleppy greens, 7s. Ceylon seeds, 7s. 9d. per lb.

**CASCARA SAGRADA.**—Quiet. Spot quotations are from 200s. to 240s. per cwt.; new-crop forward is valued at 200s., duty paid.

**CASCARILLA.**—Quiet. Quills, 1s. 6d. to 1s. 7d. per lb., spot, siftings, 1s. 5d. to 1s. 6d.

**CASSIA PODS (*C. fistula*).**—East Indian, 65s. per cwt., ex wharf.

**CHILLIES.**—Mombasa, 110s. per cwt., spot; shipment, 95s., c.i.f.; Sierra Leone, 115s., nominal; Nigeria, 90s., spot.

**CINNAMON.**—Ceylon on spot is offering as follows: 0000, 3s.; 000, 2s. 10d.; 00, 2s. 8d.; 0, 2s. 6d.; firsts, 2s.; seconds, 1s. 11d.; thirds, 1s. 10d.; fourths, 1s. 9d.; quillings, 1s. 5d., featherings, 1s.; chips, 6d. per lb.

**CLOVES.**—Zanzibar on spot is quoted at 9d. to 9½d. per lb.; shipment, 1s., c.i.f.

Madagascar, shipment, 7½d. c.i.f. Penai on spot is quoted at from 2s. 10d. to 3 per lb.

**COCHINEAL.**—Silver greys, quoted 4s. 3d. per lb., spot; blacks, 4s. 6d.

**COCOA BUTTER.**—Maximum controll price is 4s. 11½d. per lb., delivered.

**COLCHICUM.**—Corms, spot, offered 7s. 6d. to 8s. 6d. per lb.

**DERRIS ROOT.**—Controlled price of root and "other rotenone materials" 2s. 4d. per lb., ex warehouse.

**DIGITALIS.**—Portuguese leaves offered 150s. per cwt., spot; English, from 2s. 6 per lb.

**DRAGONS BLOOD.**—Singapore reboiled 1, £70 per cwt., spot; No. 2, £35.

**ELEMI.**—Steady. Manila No. 1 is quoted 2s. 3d. per lb., spot. A fair export inquiry is reported.

**GAMBoge.**—Quiet and steady. Siam pip spot, £50 per cwt., duty paid.

**GENTIAN.**—Quiet. French natural quoted at 62s. 6d. per cwt., spot.

**GINGER.**—African on spot is quoted from 74s. to 75s. per lb.; new-crop, Ju August, 71s., c.i.f. Jamaica No. 1 quoted at 120s. to 125s.; No. 2, 117s. 6d.; No. 115s. per cwt., spot.

**GUAIACUM RESIN.**—Quotations for lumps are from 2s. 9d. to 3s. per lb., spot.

**HONEY.**—Prices are unchanged. Approximate rates per cwt. for Australian or Jamaican honey, for manufacturing purposes, are as follows: In original packings (56-60 tins for Australian or 3½-cwt. barrels Jamaican), for quantities of 10 cwt. or more, 96s.; less than 10 cwt., 105s.; carriage paid. Refined repacked honey available at the following rates per cwt. In 7-14 lb. tins, 145s.; 28-lb. tins, 130 56-lb. tins, 120s., carriage paid, subject to wholesale discount of 8½ per cent.

**IPECACUANHA.**—Nicaraguan on spot offering at from 24s. 6d. to 25s. per lb. afloat, 23s., c.i.f.; for shipment, 22s. 6c.i.f.

**IRISH MOSS.**—French select bleached quoted at 120s. per cwt.; No. 1, 105 No. 2, 95s. per cwt.

**JALAP.**—Vera Cruz, spot, from 3s. 5d. 3s. 9d. per lb., as to test (15 to 17 per cent. resin). Brazilian (13 per cent.), 1s. per lb., spot.

**KARAYA.**—No. 1 gum is offered at 21 and No. 2 at 180s. per cwt., spot.

**LIQUORICE.**—Anatolian natural root spot is offering from 47s. to 50s. per cwt. as to holder; Syrian, 42s. 6d. Italian block, 375s. per cwt., spot; Italian stick in good demand at £385 to £525 per ton as to quantity and grade. Turkish block is available at from 240s. per cwt.; Syrian block, to come forward, 405s., duty paid

MACE.—West Indian blade, on the spot, quoted at 7s.; pickings, 4s. 6d. to 5s. 6d. per lb., according to quality.

MENTHOL.—Quiet. Brazil on spot is offered at from 44s. 6d. to 46s. per lb., duty paid; 42s. 6d., in bond.

MERCURY.—Spot quotation continues at 15 per flask, ex warehouse; for shipment, 14, c.i.f. U.K.

MYRRH.—Aden sorts, £13 to £14 per wt.; siftings, £6 10s. to £7 per cwt., spot.

NUTMEG.—West Indian 80's, on spot, quoted at 3s. 4d.; sound unassorted, s. 11d.; wormy and broken, 1s. 8d.

NUX VOMICA.—Madras, on spot, is steady at 40s. to 42s. 6d. per cwt.; Mangalore, 30s.; Cochin, 42s. 6d. to 45s., spot.

OLIBANUM.—Fair to good drop, from 30s.; pea size, 200s.; good garblings, 60s.; seeds, 170s.; siftings, 95s. per cwt.

ORANGE PEEL.—Spanish quarters, 1s. 2d. 1s. 5d., spot; sweet ribbon is quoted at s. 9d.; bitter ribbon, 1s. 6d. to 1s. 9d. per s., nominal.

PAPAIN.—East African No. 1 is offered at 25s. per lb., spot; Ceylon, 20s.

PIMENTO.—Spot is quoted 1s. 2d. per s.; to arrive, 119s. per cwt., c.i.f.

PODOPHYLLUM.—American (*peltatum*) is offered spot London at 300s. per cwt.; Indian (*emodi*) 320s. to 340s.

QUILLAIA.—Natural bark is offering at about 95s. per cwt., spot; crushed, 130s.

RHUBARB.—Chinese rough-round is offering at from 4s. 3d. to 4s. 9d. per lb., spot.

SEEDS.—ANISE.—Cyprus is offered at s. 6d. per lb., and Turkish at 1s. 5½d. per s., duty paid, both spot London. CARAWAY.—Sellers of Dutch are now quoting 95s. to 107s. 6d. per cwt.; duty paid London.

CELERY.—Indian remains quiet at s. 3d. per lb., ex store London or Liverpool. CORIANDER.—Argentine is offered at 2s. 6d. per cwt., duty paid, spot London, and splits, at 32s. 6d. per cwt., spot London or Liverpool.

Morocco for August-September shipment is quoted at 35s. per wt., c.i.f. London on buyers' licence.

UMIN.—Indian, spot Liverpool, quoted at 10s. per cwt.; Cyprus, spot London, is 12s. 6d. per cwt. DILL.—Indian remains firm at 47s. 6d. per cwt., spot London, and 3s. 6d., ex store Liverpool.

Indian is unchanged, 72s. 6d. per cwt. spot London, and 71s. per cwt., quoted in Liverpool.

FENUGREEK.—Market continues firm. Indian quoted at 50s. per cwt., spot London or Liverpool; for shipment, 57s. 6d. per cwt., c.i.f. quoted. Morocco for shipment is 56s. 6d. per cwt., c.i.f.

SHELLAC.—Spot quotations, ex warehouse, London, F.O.T.N. pure, 330s.; F.O. standard 1, 340s.; fine orange, 350s. to 390s. per cwt.

## Essential and Expressed Oils

ALMOND.—There is little demand for sweet oil (B.P.); prices are unchanged at 8s. to 9s. per lb. Bitter essential oil is quoted at from 30s. to 45s. per lb., as to quality.

ANISE.—Chinese star, in drums, 5s. 6d. per lb.; for shipment, 5s. 6d., c.i.f.

BAY.—West Indian is offered at 7s. 6d. to 8s. 6d. per lb. on the spot.

CAMPHOR.—White oil on the spot is quoted at 2s. 9d. per lb., duty paid.

CARAWAY.—English-distilled is offering at 37s. to 40s.; imported, 28s. to 30s. per lb.

CASSIA.—Prices range from 13s. 9d. to 15s. per lb., spot.

CITRONELLA.—Ceylon is offering at 3s. 6d. per lb., spot, and 3s. 3d., c.i.f. Java on spot is 8s. per lb.; 6s. 3d., nominal, c.i.f.

CLOVE.—Quotations for English-distilled bud oil are at from 10s. 6d. to 12s. per lb., according to quantity.

CORIANDER.—English-distilled is quoted at 260s. per lb. In fair supply.

CUBEBS.—English-distilled is offered at 55s. per lb.

LEMONGRASS.—Drums are quoted at 5s. 6d. per lb., with up to 6s. 6d. for smalls; shipment, 5s. 4d., c.i.f.

LIME.—Lime is offered at from 27s. to 30s. per lb., according to quantity.

TEASEED.—Quotations for refined oil on spot are from 50s. to 57s. 6d. per gall.

## World Mineral Industries

### No. 9—Copper

THE following table gives principal producers of copper ore and their output in terms of metal (in long tons).

PRODUCING COUNTRY	1938	1941	1944
Northern Rhodesia	250,877	228,254	220,853
Union of South Africa	11,127	20,411	22,508
Canada (c)	255,022	287,195	244,228
Cyprus (b)	36,000	90	130
Australia	19,446	20,859	28,056
Germany	30,000	24,000	17,000
Norway	21,285	17,704	14,234
Spain (b)	22,000	5,500	6,000
U.S.S.R. (b)	100,000	(a)	(a)
Jugo-Slavia	48,700	(a)	(a)
Belgian Congo (smelter)	121,985	159,606	162,871
Cuba	14,203	9,682	6,480
Mexico (c)	41,190	47,946	40,647
United States (c)	498,003	855,490	868,347
Chile (c)	345,931	461,284	490,456
Peru	36,936	36,240	31,879
Japan	(b) 70,000	68,795	77,224

(a) Information not available. (b) Estimated.

(c) Amount estimated as recoverable.

(By courtesy of The Imperial Institute.)

## TRADE MARKS

(From "The Trade Marks Journal," July 21)

- "RACALAN"; by Deodor-X Co. of England, Ltd., Liverpool; 659,214. For all goods.
- "PUNCH AND JUDY" and Punch and Judy characters on label device; by Medrano Products, London, W.14; 657,308. For tooth-paste made of non-saponaceous materials (3).
- "THEROSEPT"; by Nipa Laboratories, Ltd., London, E.C.3; 660,820. For fungicidal and disinfectant preparations, etc. (5).
- "FLAM"; by Lionel Arthur Gray, Taunton; 661,215. For pharmaceutical preparations for use in the treatment of chest and lung complaints (5).
- "NORRIKS"; by James Cook, Norwich; 661,866. For pharmaceutical preparations for use in treating catarrh, etc. (5).
- "SOLANTOIN"; by Glaxo Laboratories, Ltd., Greenford; 662,021. For preparations for use in the treatment of epilepsy (5).
- "IPO" in distinctive lettering; by Oakhill Packing Co., Ltd., Accrington; B666,167. For domestic disinfectant preparations (5).
- "LEWCONE"; by Lewis Barnet Cohen, Manchester; B661,427. For contact lenses (5).
- "TELEVOX"; by Amplivox, Ltd., London, W.1; 659,257. For hearing aids for deaf persons (5).

**APPLICATION MADE TO THE CUTLERS' COMPANY,  
SHEFFIELD.**

- "PHANTOM"; by Dominion Steel Corporation, Ltd., Sheffield; 661,085/7775 S. For safety razors and blades (8).

(From "The Trade Marks Journal," July 28)

- "AMPLEX"; by Gevaert Photo Producten Naamloze Vennootschap, Antwerp; 657,407. For photographic chemicals (1).
- "ISOCRETE"; by Matti Janhunen, Helsinki, Finland; 661,942. For industrial chemicals (1).
- "MEDIFLORA"; by George Wright Taylor, Leeds; 661,982. For garden fertilising products (1).
- "AMOLYP"; by Amovon, Ltd., Bradford; 654,266. For non-medicated toilet creams for the lips and lipsticks (3).
- "ALTESSE"; by Parfums Massenet, Inc., New York; 656,127. "KURKO"; by George Robert Curnock, Dunstable; 659,445. "1813 PHILIPPE LARBALESTIER, JERSEY" on label device (numerals "1813" disclaimed); by Philippe Larbalestier, Jersey; B658,307. "HEIRLOOM"; by Gainsborough (Twickenham), Ltd., Twickenham; 660,918. For non-medicated toilet preparations (3).
- "MOONMOOD" in rectangular shape; by "Moonmood" Cosmetic Preparations, London, E.15; 659,845. For cosmetic preparations (other than toilet preparations) (3).
- "CHEVELENE"; by Crebels, Ltd., Croydon; 661,584. For hair colour restorers (3).
- "RELAXITA"; by Aktiebolaget Pharmacia, Stockholm; B650,712. For pharmaceutical products, and drugs for pharmaceutical purposes (5).
- "VERROLYSE"; by Publirex, Villefranche-sur-Saone (Rhône), France; 650,907. For pharmaceutical products (5).
- "OTEV"; by Colgate-Palmolive-Peet, Ltd., London, S.W.1; 662,070. For deodorants (5).

- "BETAVEL"; by Vitamins, Ltd., London, W.6 653,632. For medicated vitamin preparations in tablet and liquid form (5).
- "PROTOSTIB" and "TERNAPROL"; by May Baker, Ltd., Dagenham; 655,209 and 661,277. For all goods (5).
- "PETER PANDA" and device of a panda; by Lee Chemicals, Ltd., London, N.19; 655,655. For fly papers (5).
- "MINOVIT"; by Brand & Co., Ltd., London S.W.8; 656,789. For infants' and invalid foods and dietetic foods (5).
- "NOK" in distinctive lettering; by Jeyes' Sanitary Compounds Co., Ltd., London, E.1; 656,819. For insecticides (5).
- "OPAS-OL"; by Wigglesworth, Ltd., Westhoughton; 657,110. For medicated emulsions for treating digestive ailments (5).
- "RUBY" (device of dog's head disclaimed); by R. E. Nicholas (Romsey), Ltd., London N.W.1; B661,395-96. For veterinary medicine and powders (5).

## A PHARMACIST'S ANTHOLOGY

ITEM, the twenty-fourth, a little insinuative, preparative and emollient clyster to mollify, moisten, and refresh his worship's bowels. What pleases me in Mr. Fleurant my apothecary is, that his bills are always extremely civil. His worship's bowels, thirty sous. Ay, but Mr. Fleurant being civil isn't all, you ought to be reasonable too, and not fleece your patients. Thirty sous for clyster! Your servant, I have told you of this already. You have charged me in your other bills but twenty sous, and twenty sous in the language of an apothecary as much as to say ten sous; there they are ten sous . . . . Item, the twenty-eighth a dose of clarified, dulcified milk, to sweeten, lenify, temper and refresh thy honour's blood, twenty sous. Good, ten sous. Item, a cordial preservative potion composed of twelve grains of bezoar, syrup of lemons, pomegranates, etc., according to prescriptions, five livres. Oh! Mr. Fleurant softly, if you please, if you use people in this manner, one would be sick no longer content yourself with four livres; sixty sous. Three and two make five, and five make ten, and ten makes twenty. Sixty-three livres, four sous and six deniers. So then in this month I have taken one, two, three, four, five, six, seven, eight purges; and one, two, three, four, five, six, seven, eight, nine, ten, eleven, twelve clysters; and the last month there were twelve purges, and twenty clysters. I don't wonder if I am not so well this month as the last.

—From "The Hypochondriack," b.  
Molière.

# BURGOL ANTISEPTIC



An Antiseptic of the Popular  
"PARA-CHLOR-META-XYLENOL" TYPE

Can be recommended for general, medical and personal use. The pleasant aroma attained by incorporating Ti-tree Oil makes an instant appeal to the discriminating user.

4 oz.

Retail 1/3 each

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plus P.T.  $\frac{1}{3}$  rd

16 oz.

Retail 3/9 each

25/3 doz.

plus P.T.  $\frac{1}{3}$  rd

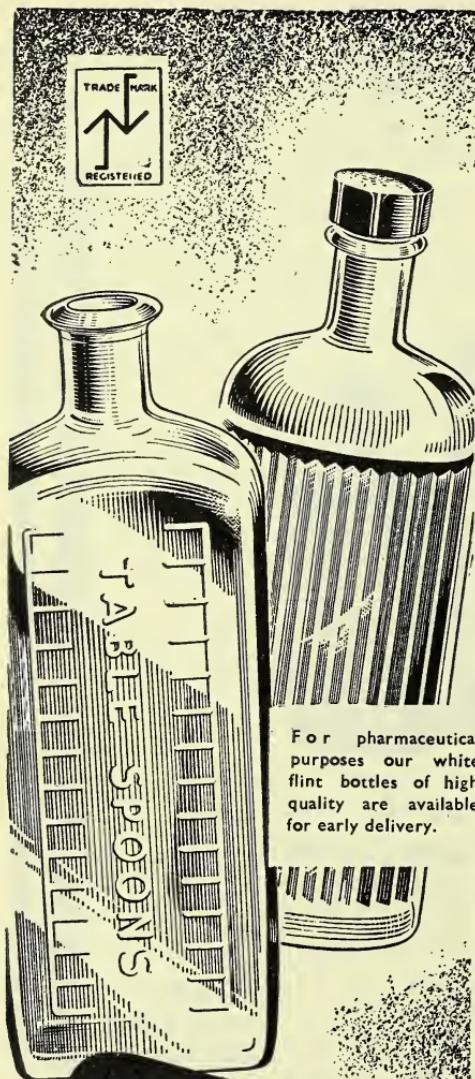
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SAFE AND RELIABLE  
3 TIMES STRONGER THAN PHENOL  
(Rideal-Walker Test)  
FORMS A CLEAR SOLUTION IN ALL  
PROPORTIONS WITH WATER  
A WORTHY MEMBER OF THE FAMOUS  
RED DIAMOND BRAND SERIES**

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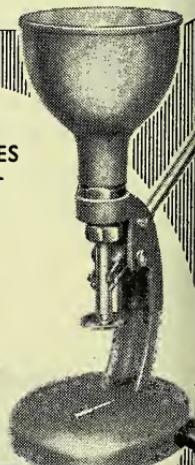
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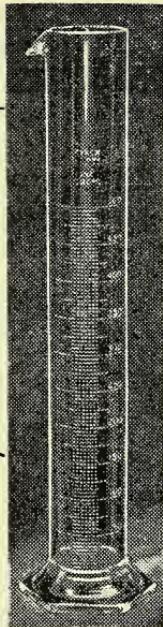
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**GRADUATED GLASSWARE**

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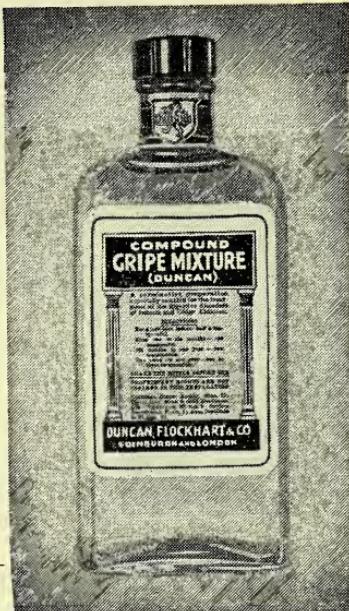


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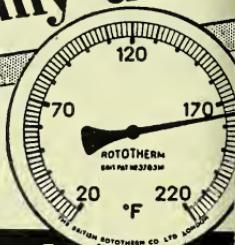
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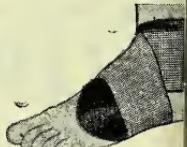
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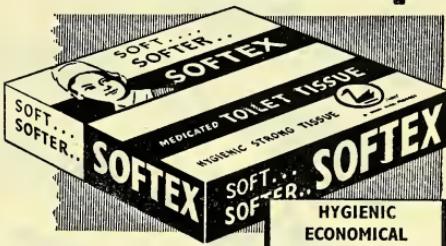
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FROM YOUR WHOLESALER**

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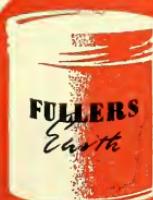
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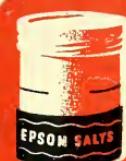
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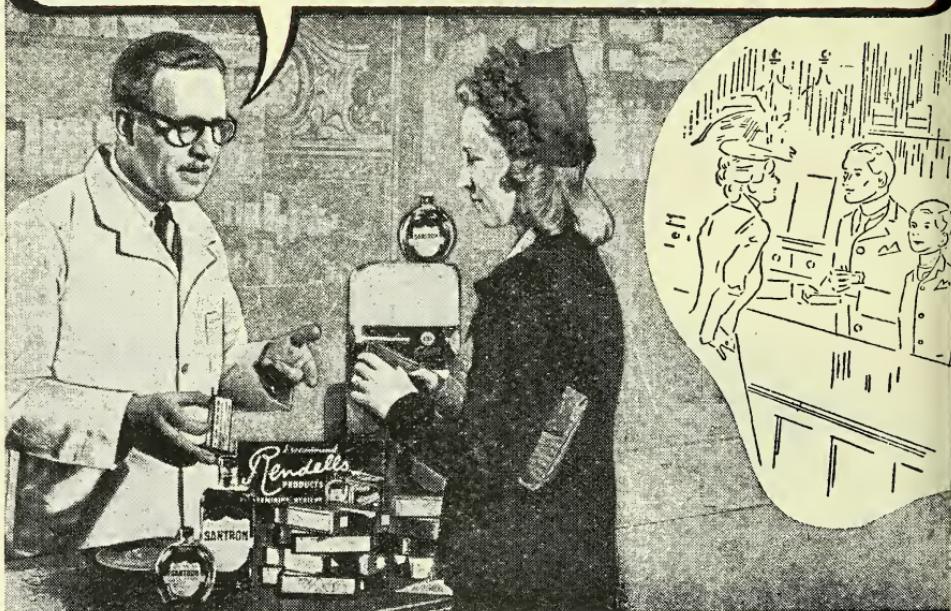
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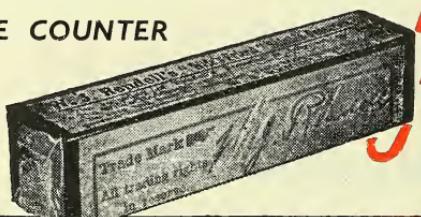
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**THE ORIGINAL BRITISH**

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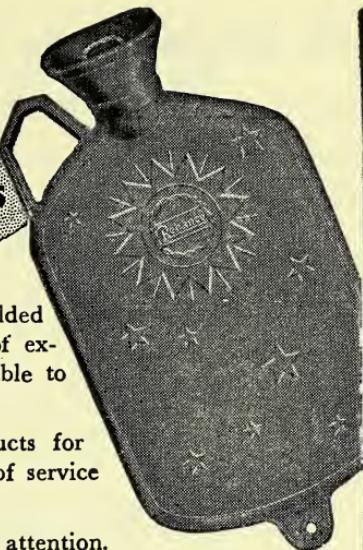
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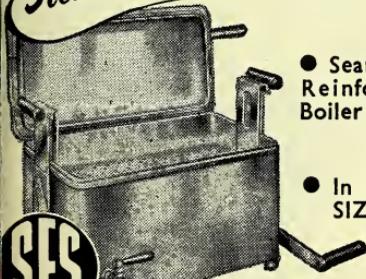
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*Abrasive*  
**HAND SOAP**

*It's quick - It's Good!*

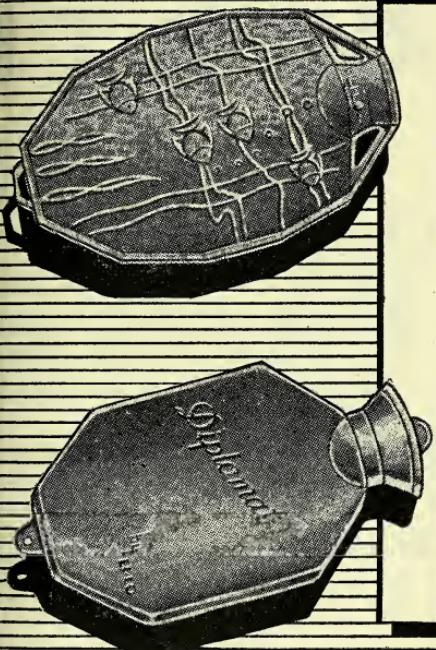
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**1/3**  
IN THE PINK  
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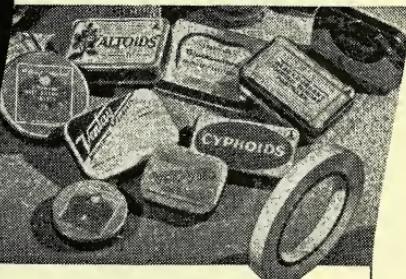
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REG'D BRAND

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A NON-CORROSIVE ACID-PROOF  
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be sure of a fair share of the big, regular demand for the Sherley's preparations please order well ahead—empty shelves can only mean disappointment. There is no treasure like a regular customer. He is the mainstay of fitable trading; a source of valuable word will. Adequate stocks of Sherley's Dogs and Cat Medicines will keep the "regulars" happy and turn many a "sual" into a good friend.



## SHERLEY'S DOG MEDICINES

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It's **CONTINUOUS QUALITY**  
**THAT COUNTS**



—and this consistently maintained quality will ensure **CONTINUOUS SALES** of COX'S D.D.T. FLY and MOTH PAPERS; so be sure and stock up **NOW** to meet this ready-made demand. **GUARANTEED 100%** impregnation and two-year life, and proved to be the simplest and most effective solution to the fly menace, for FLIES DIE IN 5-15 MINUTES.

**Cox's** **D.D.T.  
FLYPAPERS**  
First and Still Foremost

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Manufacturing Chemists  
378, NORTHOLT ROAD,  
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## BEECHAM GROUP LARGER NET SURPLUS

The 20th annual general meeting of the Beecham Group Ltd. was held on July 28 in London, Sir J. STANLEY HOLMES, M.P., chairman and managing director, presiding.

The following is an extract from his statement circulated with the report and accounts:

The result of the group's trading for the year ended March 31, 1948, is a net surplus of £751,511 available for dividend on the Deferred shares and for reserves, as compared with £502,659 in the previous year. It is proposed to declare a final dividend of 4 per cent., making 40 per cent. for the year, the same as last year. The trading profits and sundry revenue earned by the 118 companies and branches of the group amount to £2,370,181, compared with £2,688,522.

Although home sales showed an increase of nearly 18 per cent., the home trading profits have shown a decrease of £208,088, due to the steeply rising costs of raw materials, containers, consumable stores and wages, without any compensating increases in the selling prices of the great majority of our products except those arising from increased rates of purchase tax. Our export trade has again shown satisfactory results in spite of increasing costs. The total charge for United Kingdom taxation amounted to £1,157,366, compared with £1,656,114.

### INCREASED FOOD SALES

Our food sales have increased in total by over 25 per cent., while the sales of foodstuffs manufactured and canned in our own factories have increased by 65 per cent. compared with last year. The food side of the group's business, which commenced three years ago with the purchase of C. and E. Morton Ltd., continues to expand rapidly, and has already made, and is likely progressively to make, a not inconsiderable contribution to the group's future prosperity.

During the past year personal contacts have been made with our people overseas. The conferences which we have been able to hold on the spot with our overseas managers have enabled us to obtain a clear picture of local conditions and difficulties, and should result in increased trade and profits in the future. The recently formed sales companies in India and Malaya have traded successfully since their inception.

### NEW FACTORIES

The new Lucozade factory in the development area of Newcastle is now in production, while the new factory in the development area of St. Helens will commence production in the next few weeks. During the year another factory was purchased on the Great West Road to handle the soap production of T. F. Bristow & Co., Ltd. The purchase of the controlling interest in this company was announced in last year's statement. The accounts now before you include the trading of this company for a period of 10½ months. The results are excellent and a successful entry has been made into the export market.

Relations between the various companies of the group and their respective employees continues to be excellent, and particular attention is paid to matters of staff welfare. As a general policy all our employees who join the Territorial Army are granted leave of absence.

Through the Beecham National Savings Association 44,788 National Savings Certificates were purchased by the staff during the year, and since the formation of the association in January, 1940, purchases have reached a total of 253,780 certificates.

It is difficult to make prophecies with regard to the future, but we have so continually broadened the basis of our business and our interests all over the world are so far flung that we can face the future with confidence.

The report was adopted.

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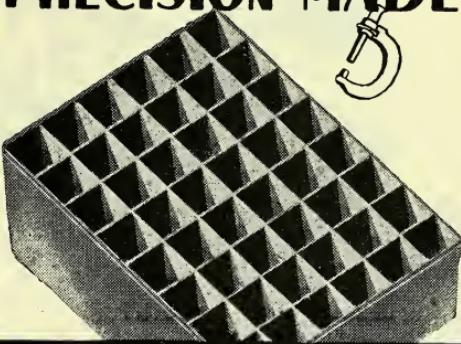
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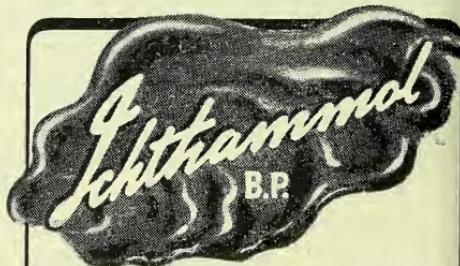
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*Baby Lotion is an EXTRA for you to sell*

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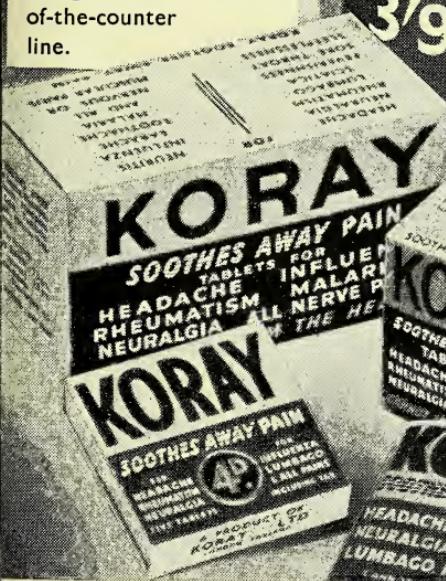
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**FOR SALE** as a going concern, fully equipped chemist shop, with living accommodation in first-class shopping parade at Willesden Green. Vacant possession of shop and 5-roomed flat over, immediately. Price, freehold, £3,500, stock at valuation. For further details, apply to the executor's sole agents, E. P. Nelson & Co., 12 High Road, Willesden. Wil. 2231.

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Vacancies advertised are restricted to persons or employments excepted from the provisions of the Control of Engagements Order, 1947.

### SITUATIONS OPEN

8/6 for 36 words or less, 3d. for every additional word

#### RETAIL (HOME)

**ASSISTANT**, just qualified, for Central London Pharmacy. Good prospects. Apply Box 4/309.

**BOGNOR**. Unqualified Male Assistant required by well-known chemists. Please apply giving full details to Box 4/251.

**BOOTS THE CHEMISTS** have vacancies in a number of districts for qualified assistants, male and female. Salary (Male) Central London, £8 15s. to £10 5s.; Metropolitan District, £8 7s. 6d. to £9 17s. 6d.; Provinces, £8 to £9 10s. (Female) Central London, £8 5s. to £9 15s.; Metropolitan District, £7 17s. 6d. to £9 7s. 6d.; Provinces, £7 10s. to £9, according to age. Engagements are on a permanent basis with good prospects and eligibility for Pension, Life Assurances, etc. There are also a number of vacancies for Unqualified Assistants fully trained in the business and including those dispensers who have been released by doctors, etc. Good remuneration with a view to permanency, Pensions Scheme, etc. Applications should be made to Retail Staff Department, Station Street, Nottingham, stating age, experience and district required.

**BRIGHTSIDE & CARBROOK** Co-operative Chemists, Ltd., have vacancies for branch pharmacists, male or female. Permanent progressive positions. Good conditions and salary, superannuation scheme in operation. House accommodation provided. Apply, Superintendent Chemist, at the Registered Office, 32 Sycamore St., Sheffield, 1.

**CHEMIST** required assistant experienced in dispensing. Part-time might be arranged. Kensington area. Apply Box 4/308.

**DERBYSHIRE**. Qualified assistant required for pharmacy in small town. Salary £8-£9 according to experience. Good prospects of obtaining share in firm. Apply full particulars to J. & Sale & Son, 6 Iron Gate, Derby.

**DERBYSHIRE**—Small Town. Vacancy occupied by young qualified man or woman, mainly dispensing duties. Good salary and comfortable permanent post. Apply with all particulars to first instance to Box 4/312.

**EXPERIENCED AND CAPABLE** Manageress required in September for high-class toilet counter in England Pharmacy. Must be well educated and of good appearance. Write in first instance with particulars. Box 4/280.

**FIVE-DAY 40-HOUR WEEK**. General shop counter, display, etc., some dispensing if required. £5 10s. weekly for active assistant. Chemist-Optician, 70 Ripple Rd., Barking.

**GILLINGHAM CO-OPERATIVE CHEMISTS** require the services of qualified assistant, male or female, for busy central pharmacy. Excellent prospects for suitable person. Superannuation, pension, etc. Applications with usual details to: Secretary, Gillingham Co-operative Chemists, Ltd., 142 St., Gillingham, Kent.

**LEWIS & BURROWS** require assistants qualified or unqualified pricing stockbooks. Temp. Apply 146 Holborn, E.C.1.

**LINCOLN**. Young qualified assistant, lady or man, to control modern dispensary. Comm. salary, £400 per annum. Battles, Ltd., 294 St., Lincoln.

**ORRIDGE & COMPANY** Employment Agency, Strand, W.C.2. Temple Bar 9212/3. Branches at Southampton and Birmingham. Enquiries invited from pharmacists and unqualified persons requiring situations. Many attractive vacancies available. Excellent opportunities existing in progressive permanencies. Locums provided for charge to employees except registration fee. to 184 Strand, W.C.2, in first instance.

**PHARMACIST** required, able to take charge of busy, good-class branch pharmacy. Wage, £120 per week. Apply by letter stating age and experience. Hartlepools Co-operative Chemists, Ltd., St. St., West Hartlepool.

**PHARMACIST-MANAGER** take charge of branch in North-west London. Apply Lewis & Burrows, London.

**POPLAR**. Manager, qualified, required for pharmacy in Poplar. Good salary offered to get man with experience. Permanency with prospects. Apply Box 4/235.

**QUALIFIED** manager or manageress for branch in North Staffordshire. Would suit qualified person. Good wages and free living accommodation over shop if required. T. C. Chemists Ltd., 27 Stoke Road, Stoke-on-Trent.

**QUALIFIED ASSISTANT** (lady or gentleman) with optical qualification an advantage but not essential. Particulars, experience and salary to T. C. T. Chemists Ltd., 44 High St., Normanton, York.

**QUALIFIED ASSISTANT** required for counter dispensing in high-class pharmacy (T.S.A. Lic.). High remuneration. Permanency. Chave & son, Ltd., Hereford.

**QUALIFIED LADY** or gentleman required each September. Hours 9.30 to 6 p.m. No Sunday extra duties. Good salary. Apply, W. T. B. (Chemists), Ltd., 34-36 New Park Rd., E. Hill, S.W.2.

**QUALIFIED MANAGER** required for busy centre pharmacy; very little dispensing. Must live in residential district. Please give full particulars. Permanency. S. J. Mott, 48 Piccadilly, Stoke-on-Trent.

**QUALIFIED MANAGER** required for good family dispensing business in residential area at Wimbledon, Surrey. Permanent appointment and living accommodation. Good salary. Apply

**IFIED MANAGER** required for good-class dispensing business in Streatham. Permanent settlement; living accommodation available; good Apply Box 4/234.

**ROYAL ARSENAL** Co-operative Chemists, Ltd., vacancies as pharmacy managers and qualified dispensers. Applications are invited from qualified pharmacists, male or female, and particular salary and commission will be forwarded application. Permanent and progressive Superannuation scheme in operation. Write particulars to the Staff Manager, 113 Powis Woolwich, S.E.18.

**JAY.** Manager required — should interest us. Pharmacist desirous of obtaining promising scope and opportunities. Permanency, with full details to Box 4/250.

**EXPERIENCED** and active lady dispensers. Generous salary to right applicants. Apply letter stating experience. Expenses paid interview.—Francis & Co., Ltd., Chemists, am, North Wales.

**ALIFIED—LADY** preferred—reliable dispenser window dresser. Apply Vincent & Co., 1347 n Rd., Norbury, S.W.16.

**RIA, S.W.** Branch Manager required for class pharmacy within 10 minutes of Vic-Station. Permanent appointment; good sal-Saturdays half day. Apply Box 4/237.

**ESTABLISHED** Chemists require qualified pharmacist, also part-time Pharmacist. Ex-post offering scope and opportunities. Apply full details to Box 4/252.

**END**, London. Qualified assistant, lady or man, required for West End type of busi-Duties principally dispensing and to assist inter. Good salary. Apply Box 4/236.

**ON-SUPER-MARE:** Qualified assistant re-mainly dispensing. Apply, The Managing or, Lewis Wing, Ltd., 86 Regent Street, n-super-Mare.

## RETAIL (OVERSEAS)

**ALIFIED GENTLEMAN**, Gentle, as assistant, 40-50. Congenial easy position, 44-hour week. weeks' vacation. Salary about £400. Write air Simpson, Box 1136, Port Elizabeth, South Africa.

## LOCUMS WANTED

**SHIRE.** Qualified locum required, any fort-in September, for pharmacy in small market Box 4/160.

M urgently required commencing August til September 26. Good salary and expenses. nts kept. Will someone come and allow two gers to have a holiday? Selles, Dispensing sts, Ltd., Molescroft House, Beverley, East

**ON, E.2**, near City. Assistant, qualified or ified, for four or six weeks during holidays. full particulars of experience, age, names of nces and salary expected. Apply (letter only), acist, 35 Synder Rd., Stoke Newington, Lon-16.

**IFIED LOCUM** required for a few weeks from t 9. No half day or Sunday duty, must be o take complete charge of branch. Please full particulars to Goldthorpes, 10 Powis Woolwich, S.E.18. Woolwich 0403.

**ERLAND, DURHAM.** Qualified Locum re-for four weeks from August 9. No half r Sunday duties. Two assistants. Full par-s. Box 4/305.

## WHOLESALE

**DING FIRM** of pharmaceutical engineers (pool area) require technician experienced in making, coating, etc., for experimental and ment work. M.P.S. an advantage. Write /289.

## The Institute of Chemists-Opticians, 2 Clements Inn, Strand, W.C.2

For Syllabuses of the Institute's Examinations and all further information, write to the Hon. Secretary, J. Ross-Mansell, Ph.D., B.Sc.

**A LEADING FIRM** of Baby Food Manufacturers invite applications from experienced pharmaceutical representatives of good trade standing, between the age group 30-40, in connection with a vacancy covering London and Home Counties, resident in the London area. The appointment is of a permanent character carrying a good salary, pension scheme, and prospects for personal advancement. Box 4/268.

**A WELL-KNOWN COMPANY** 20 miles from London require young man to train as assistant to sales manager. Applicant should be of Public School type, intelligent, and be prepared to work hard for an exceptionally good opportunity; some pharmacy or hospital experience would be an asset. Send full details of education, career, and other personal particulars. Box 4/281.

**ADVERTISING MANAGER** for important ethical pharmaceutical manufacturers. Experienced in copywriting, layout, production. Medical knowledge an advantage. Staff are informed of vacancy. Give age, details of experience, and salary required to Box 4/296.

**AGENT OR REPRESENTATIVE** required for North-umberland, Durham, Cumberland, Border Counties of Scotland and N.E. Yorkshire. Popular Perfumery and Brushware. Good commission basis. Parfumerie Française Sales Co., 377 Edgware Rd., W.2.

**ANALYTICAL CHEMIST** required by London manu-fac-turing chemists. Practical works experience of general routine analysis and alkaloidal assays of drugs, including opium, essential. 5-day week. Reply, giving particulars of experience, salary, etc., to Box 4/173.

**AN ESTABLISHED** firm of manufacturing chemists require representatives to cover the London area and Home Counties (Surrey, Sussex and Kent). Wide range of pharmaceutical preparations. Good existing connection will be handed over. Preference will be given to experienced men with live connection this area. Car owner essential. Salary and commission. Apply with full details, Box 4/189.

**CHEMIST** required by reputable firm in West Lon-don manufacturing medical specialities. Applicants must be experienced in the assaying of medicinal substances and vitamins. Salary in the region of £500 per annum according to experience and qualifications. Applications with copies of testimonials to Box 260, Smiths', 100 Fleet St., London, E.C.4.

**SALES MANAGER** required by a progressive firm of manufacturing chemists in London, having a large home and export turnover. Applicant should have a pharmaceutical degree, experienced in correspondence, sales literature, controlling representatives, etc. To a man of the right calibre, capable of undertaking increasing responsibility, the post offers a permanent career with unlimited prospects. A keen, experienced man of real ability is required, to whom a good salary will be paid. Please reply in strict confidence giving age, full details of previous ex-perience, to Box 4/290.

**EXPERIENCED REPRESENTATIVE** wanted for Birmingham area by manufacturers of surgical dressings, sanitary towels and druggists' sundries to call on chemists (and on drapers for sanitary towels only); connection an advantage; salary, commission and expenses. Box 4/193.

**EXPORT** assistant required by well-known, old-established London manufacturing chemists and wholesalers. Familiar with export routine, good correspondence and preferably able to type, with some knowledge of toilet preparations. Good prospects and conditions, pension scheme and 5 day week. Write fully, Box 4/295.

**FIRST-CLASS** Representatives required by large firm manufacturing branded line of Hypodermic Syringes, to call on hospitals, institutions, wholesalers, etc., in the various regions recently set up by the Ministry of Health. M.P.S. qualifications preferred but not essential. Salary, commission, expenses. Permanency. Apply Box PP. 3138, W. H. Smith & Son, Ltd., Manchester, 3.

**GOOD OPPORTUNITY** for energetic representative calling on grocers, chemists, ironmongers, etc., for all territories in London. Salary, expenses and commission. Write fully to Box No. 25, RSD/CPW 185 Fleet St., London, E.C.4.

**HIGH-CLASS** Toilet Soap Manufacturers invite applications from gentlemen with first-class experience amongst chemists, hairdressers and departmental stores, to represent them in Wales, and, at the moment, Hereford, on a salary, commission and expenses basis. Pension scheme. Please state age, etc., and if car owner, to Box 4/313.

**INTERNATIONALLY KNOWN** Toilet Brush Manufacturers require representation in North of England and North Wales. Own car essential. First-class contacts with all outlets for this type of product necessary. Apply giving fullest particulars to Box 4/271.

**M.P.S.** (under 30) required for London sales office. Full particulars of experience and salary required to Box 263, Curzon International, Ltd., 11 Duke of York St., S.W.1.

**OFFICE MANAGER** with experience handling large-scale sales to chemists and chain stores required in South London factory and office. Write Box 4/196.

**OLD-ESTABLISHED** manufacturing and distributing chemists require representatives domiciled in Manchester, Edinburgh and Dundee. Write stating age and brief résumé of career. Salary, commission and expenses. Box 4/291.

**PHARMACEUTICAL** and medical manufacturing company with world-wide interests has vacancy for a representative in this country. Applicants, not over 35 years, should give particulars of experience, including details of education, age and remuneration. Box 4/287.

**PROGRESSIVE POSITIONS** are vacant on representative staff of nationally known manufacturing chemists. Successful candidates, who have had experience in retail pharmacy, will be appointed to the following territories, on which they must reside: (1) Hants, Dorset and Berks; (2) Derby and S. Yorks.; (3) Staffs, Warwicks and Worcestershire. Apply in confidence giving full particulars of experience to date. Box 4/267.

**QUALIFIED INDUSTRIAL CHEMIST** required for manufacturers near London with practical experience of cellulose, oils, colours and waxes. Salary in accordance with qualifications and experience. Full details to Box 3677, c/o Whites, Ltd., 72-78 Fleet St., London, E.C.4.

**REPRESENTATIVE** required to sell baby powder and cosmetics on a commission basis for Yorkshire and Lancashire. No objection to other lines being handled. Box 4/216.

**REPRESENTATIVE**, must be qualified, required by Hirst, Brooke & Hirst, Ltd., to take over the East and South Yorkshire areas. Must reside in Sheffield or within 25 miles radius. Previous experience an advantage but not essential. Reply in strict confidence to Managing Director, Sheepscar Works, Leeds, 7.

**REPRESENTATIVE** required, age 25-30. Mid-area. Nationally advertised toilet preparations. Good prospects. Key territory. Apply Sales Manager, Box 4/297.

**REPRESENTATIVES** required for all areas to toilet rolls and other lines to retailers and consumers. Liberal commission and expenses. Age, experience, and territory covered. Box 4/

**REPRESENTATIVES** required by firm of wholechemists for all areas in England, Scotland and Wales; must have good connections with chemists, Co-ops, stores, etc. Good commission during engagement with prospect of good salary to right men. Write Box "Z.T.538," Deacons Arising, 36 Leadenhall St., London, E.C.3.

**REPRESENTATIVES** required by manufacturer of well-known toilet brushes and accessories about to launch new lines for coming season. Must be introduced to leading stores and have active connections chemists and hairdressers. Comm. basis only. South-eastern area, Midlands, Wales and East Scotland. Give details and if car owner. Box 4/286.

**REPRESENTATIVES** with live connection calling on chemists to carry additional lines. Generous commission and every support given to energetic Own car essential. Box 4/285.

**REQUIRED** by established company marketinlet preparations, two representatives, York and Northern Counties; London, north of Th Age 25-35. Training given. Good prospects. Sales Manager, Box 4/266.

**TABLET-MAKER**, experienced in all branch tablet production, required by well-known manufac. N.W. London area. Write, stating age, experience and salary required, to Box 4/212.

**THE METAL BOX COMPANY'S** London Res. Division offers a career. It plans to increase staff of sixty by a steady intake over a period of 3 years. Newcomers will be introduced to aspects of the work by a period of 1 to 2 years training and definite jobs will not be assigned until that training period has been completed. Investigations cover all aspects of the manufacture and use of metal and paper containers, e.g. simulation and application of organic coatings; technology; chemical analysis; corrosion protection; soldering, welding and fluxing; bacteriology; canned food, etc. Applications are invited from (i) Senior graduates in chemistry, physics, civil engineering and bacteriology, aged 25 to 30, with research experience. Salaries £600 to £800 according to calibre. Training period according to circumstances. (ii) Graduates straight from college. Salaries £350 to £400 (initial). Training period 18 months to 2 years. Applications writing to Staff Division, Metal Box Co., The Langham, Portland Pl., W.1, giving RS.3. It is understood that the situation is available only to applicants exempted under the Control of Engagements Order, 1947.

**TRAVELLER** wanted with substantial experience selling high-class perfumery to Lancashire and North Country retailers on salary, expenses and commission basis. Interview in Manchester arranged. Offers to Neville's, North Wharf, London, W.13.

**WELL-KNOWN**, old-established House requires qualified drug representative for Hants., Dorset and East Sussex. Car owner preferred. Connection already established. Salary and expenses. Box 4/311.

**WORKS CHEMIST** required for executive position with London firm of manufacturing chemists. Applicants must be experienced in galenical manufacture and the supervision of poison and D lines and be capable of carrying out assay control of products. Excellent opportunity for right man. Please apply in own handwriting, giving age, qualifications, experience, and salary required to Box 4/217.

**CHEMIST** with pharmaceutical qualifications required immediately for pharmaceutical manufacturers. Interest in vitamins an advantage. Position is permanent and progressive. Write age, experience, qualifications, and salary to the General Manager, Gelatin Products Ltd., Trading Estate, Slough.

**MANAGER** with large-scale cosmetic or pharmaceutical knowledge required for new factory. Must have practical mass production experience. Write Box 4/195.

## IMPORTANT

Office numbers are intended exclusively for specific answers to particular advertisements and Price Lists, Trade Circulars, Samples and intimated Matter cannot be forwarded.

## SITUATIONS WANTED

18 words or less, £d. for every additional word

### RETAIL (HOME)

FIED, M.P.S., Ph.D., 50, naturalised, seeks a in retail as permanent manager with view to succession, or in good wholesale business, preferably with house near to business (willing to purchase house). Excellent experience in sole and retail, speaks German and French fluently. Please state terms and full particulars. 283.

TAKING, quiet and efficient workmanship, 10 years' practical experience. Personal super-C. W. Playfoot, 8 Aylward Rd., Merton 6.W.20. Tel. Liberty 4104.

### WHOLESALE

ERCIAL AND SALES EXEC., seeks senior responsibility with first-class manufacturers. Desires to remain in cosmetic/toilet preparation Please reply Box 4/282.

SIASTIC young man (19½), 4½ years' experience retail, seeks position with reputable firm representative for N. Ireland. Salary, commission and expenses. Commence September. Box

AN (qualified) wishes to contact chemists pace available for sight-testing, within 15 miles of Ealing. Terms open to discussion. Box

HACIST, experienced, available for a limited number of hours each week, wishes to contact a concern where qualification and services can be used with advantage. Replies to Box

HACIST, at present retail manager, desires to wholesale (indoor staff). Small concern or South Midlands preferred. Any re-consideration considered. Interview August inc. "Chemist," 930 Warwick Road, Green, Birmingham, 27.

MANAGER, 23 years' all-round experience packed medicine, toilet and sundries trade, indoor and outdoor sales control and organisation, sound knowledge of all aspects of the pharmaceutical trade including packing of new and advertising, together with retail, wholesale manufacturing experience, seeks progression with reputable firm. Box 4/310.

MANAGER, able organiser, with wide experience administration in all phases market research, advertising staff control, etc. At present London national company doing substantial work with chemists. Man of ideas specially to firm with progressive policy. Box 4/284.

**TABLET MAKER**, 25 years' experience granulating, compressing single and rotary machines, coating. Disengaged. References. Box 4/243.

**SALES MANAGER** seeks progressive position with manufacturers or first-class sundries house. At present engaged with full control of large outside staff with successful turnover. All-round experience in distribution and sales promotion. Number of years comprehensive experience of the pharmaceutical trade, wholesale and retail. Box 4/247.

**TABLET MAKER** (23), 7 years' experience granulating, compressing single and rotary machines, pearl coating. Disengaged. References. Seeks position South London. Box 4/288.

## APPOINTMENTS

### BOLTON & DISTRICT HOSPITAL MANAGEMENT COMMITTEE

ASSISTANT IN THE DISPENSARY required at the Bolton Royal Infirmary. Male or Female. Apothecaries' Hall qualification and hospital dispensing experience would be an advantage. Salary in accordance with National Joint Council scale, with inclusion in Superannuation Scheme.

Applications stating age, experience and full particulars, together with two testimonials, should be forwarded to the General Superintendent, Royal Infirmary, Bolton, not later than August 11, 1948.

July 28, 1948.

### METROPOLITAN HOSPITAL

KINGSLAND ROAD, LONDON, E.8.  
ASSISTANT PHARMACIST REQUIRED. Salary in accordance with J.N.C. Scale, plus lunch and tea. Federated Superannuation Scheme in force. Hours 9.5 p.m. No Sunday duty. Hospital experience preferred, but not essential. Applications, giving age, experience and references, should be sent to the House Governor.

### MIDDLESEX COUNTY COUNCIL

ASSISTANT PHARMACIST required at HILLINGDON HOSPITAL, Nr. Uxbridge, Middlesex. J.N.C. (Hosp. Staffs) scale £370-£450 p.a. inclusive. Similar experience may determine commencing salary. Established, pensionable, subject to medical examination. Recently qualified pharmacists considered. Application, stating age, qualifications, experience, enclosing copies of up to three recent testimonials to MEDICAL DIRECTOR, immediately, quoting D.444, CD, No forms. (Male candidates to state position with regard to Military Service.)

### MIDDLESEX COUNTY COUNCIL

REGISTERED ASSISTANT PHARMACIST for NORTH MIDDLESEX COUNTY HOSPITAL, Edmonton, N.18. J.N.C. (Hospital Staffs) Scale, £370 to £450 inc. Similar experience may determine commencing salary. Whole time, established, pensionable, subject to medical examination. Applications, stating age, qualifications, experience, with copies of up to three recent testimonials, to MEDICAL DIRECTOR of Hospital immediately (quoting D.591 CD). No forms.

C. W. RADCLIFFE,  
Clerk of the County Council.

**MIDDLESEX COUNTY COUNCIL**

REGISTERED ASSISTANT PHARMACIST required at HAREFIELD COUNTY HOSPITAL, Harefield, Middx, J.N.C. (Hosp. Staffs) salary £370-£450 p.a. inclusive. Similar experience may determine commencing salary. Recently qualified pharmacists eligible. Whole-time, unestablished, possible establishment, subject to medical examination. Application, stating age, qualifications, experience, with copies of up to 3 recent testimonials, to MEDICAL DIRECTOR at Hospital, IMMEDIATELY (quoting E.146 CD).

**NATIONAL HEALTH SERVICE  
JOINT PRICING COMMITTEE FOR  
ENGLAND.**

Applications are invited for the position of CLERK of the newly-formed JOINT PRICING COMMITTEE FOR ENGLAND. The Committee is responsible for the pricing of all National Health Service prescriptions dispensed by pharmacists in England. This work is carried out in thirteen Centres throughout the country, with a total staff of between six and seven hundred. The central office of the Committee will probably be in London. Applicants, who should be not more than 50 years of age, should have outstanding administrative ability, and be accustomed to the control of staffs. The annual salary will be £900 rising by annual increments of £30 to a maximum of £1,140, and the person appointed will be required to contribute to the National Health Service Superannuation Scheme.

Applications stating age, qualifications, and experience, together with copies of two recent testimonials, should reach the undersigned not later than August 31, 1948.

JOS. A. SPEED.  
Secretary, pro tem.

42 West Cliff,  
Preston, Lancs. —

**QUEEN MARY'S HOSPITAL  
FOR THE EAST END**

Stratford, London, E.15  
ASSISTANT PHARMACIST

Applications are invited from Registered Pharmacists for this appointment. Salary Scale £370 per annum with annual increases of £15 up to £450 per annum. Commencing salary within scale according to qualifications and experience. Applications, giving full particulars of age, qualifications and experience, together with copies of recent testimonials, should be sent as soon as possible to the undersigned.

J. S. STREET,  
Deputy House Governor.

**KINGSTON HOSPITAL**

WOLVERTON AVENUE,  
KINGSTON-ON-THAMES  
(500 Beds)

**APPOINTMENT OF HEAD PHARMACIST**  
Applications are invited from well-qualified Pharmacists for the above post. Permanent appointment vacant on October 1, 1948. Salary scale £575 x £20—£675 p.a. inclusive. Commencing salary according to qualifications and experience.

Applications by letter stating age and qualifications, and giving full details of experience, with the names of three referees and/or copies of testimonials, should be sent to the Medical Superintendent at the Hospital.

**REDHILL COUNTY HOSPITAL**

EDGWARE, MIDDLESEX.

REGISTERED ASSISTANT PHARMACIST required. J.N.C. (Hosp. Staffs) salary £3 £450 p.a. inclusive. Similar experience to determine commencing salary. Whole-time established, pensionable, subject to medical examination. Application, stating age, qualifications, experience with copies of up to 3 recent testimonials, to Medical Director Hospital immediately (quoting D.815 CD). forms.

**KING'S COLLEGE HOSPITAL,  
DENMARK HILL, S.E.5**

ASSISTANT PHARMACIST (Apothecary F considered) required. Salary and bonus accordance with the J.N.C. Scale. Superannuation scheme in operation. Also Locum Assistant Pharmacist. Salary guineas per week. Applications, with details of experience should be sent to the Pharmacist at the above address.

**SOUTHEND-ON-SEA HOSPITAL  
GROUP**

GENERAL HOSPITAL, ROCHFORD LOCUM ASSISTANT PHARMACIST required immediately for three months. Non-resident Salary £8 10s. per week. All possible assistance will be given in finding accommodation in the district, without obligation to the hospital. Apply in writing to the Medical Superintendent, General Hospital, Rochford, Esstating date when available.

JOHN WILLIAMS, Secretary  
Hospital Management Committee  
20 Warrior Square,  
Southend-on-Sea.

**AGENCIES**

17/6 for 36 words or less, 4d. for every additional

**ACTIVE AGENTS** required, selling famous sanitary towels to retail trade. Commission expenses. Box 4/226.

**AGENTS REQUIRED** in all parts of the country sell products on a commission basis to both and wholesale trade. Details as to present and connection to Box 4/139.

**COMMISSION AGENTS** required to sell to Chemists and Druggists in Wales, Yorkshire and East Anglia. Nationally advertised patented line, full sales including lists of customers, provided to successful applicants. Agents with proved sales record and good connections should send full details of how carried, whether car owner, and frequency of calls to Box No. 254, Dorland Advertising Limited, 18/20 Regent Street, London, S.W.1

**INDIA**

**PHARMED Ltd., 232 Hornby Road, Bombay.** Manufacturers, Distributors of Biologicals and Pharmaceuticals under expert Swiss management with a staff of highly experienced Scientists and Technicians. Up-to-date and important connections throughout the Indian Pharmaceutical market. Prepared to consider additional sales agencies from firms of repute.

**UFACTURERS' Agents' Association (C. & D.).** Every House, 8 Bream's Bldgs., E.C.4, supplies lists of agents to manufacturers seeking representation in all important centres. Membership available to established agents.

**TISH AGENT** with extremely valuable connections amongst chemists and departmental stores vacancy for an additional line in pharmaceutical, perfumery or cosmetics field, capable of a high turnover. Firms interested are invited to write to Box J.W.584, Erwoods, Ltd., 211 Illy, London, W.1.

**POSSESS** A unique organisation to handle medicines for common ailments, etc. Can give good bank and trade references. Established 1903. K. W. Perera & Sons, Ltd., 312 pass Road, Colombo, Ceylon.

## BUSINESS OPPORTUNITIES

or 36 words or less, 4d. for every additional word

**OF CHEMICAL** manufacturers offers to make es on minimum contract or cost plus basis. for home and export undertaken. Enquiries 7293.

**UFACTURERS** of nationally-advertised toilet acts of 20 years' standing, with own sales sation, would be interested in working ement or amalgamation with manufacturing ts in similar position. Objects: Reducing ads, increasing profits. Highest references and required. Principals only. Box 33, G. P. es, Sicilian House, W.C.1.

**UFACTURING CHEMISTS** have facilities and available for the manufacture, packing and of domestic, toilet and industrial products. Macowal, Ltd., 30 Loughborough St., Tel.: Reliance 3435.

**UFACTURING CHEMISTS** can undertake acture and/or packing of toilet preparations. ries to Box 4/273.

## TABLETS

We are now able to accept further business for TABLETTING, from either your materials, or ours. We can produce up to 20 tons of Tablets per week, strict control at every stage of manufacture. Any type or size of tablet, from Saccharin to a Bath Cube, why not write to us and enquire about our TABLETTING SERVICE.

Works Manager:

**CAL-MA-VITE LABORATORIES, LTD.**  
32/40 North Street, Horsham, Sussex

**TABLETS.** A well-known food manufacturing company have available tabletting capacity. Large quantities can be handled quickly and efficiently under hygienic conditions. Complete packaging can be arranged if required. Inquiries to Box W.731, Haddon's, Salisbury Sq., London, E.C.4.

**WHOLESALE DISTRIBUTORS** and agents with established coverage U.K., sound connections chemists, hairdressers, multiple stores, etc., and with a rapidly-developing export organisation, invite manufacturers' offers of sole agencies or special home territories. Box 4/145.

**WHY NOT BE A SALESMAN** with our proved postal training and guaranteed appointments service which secured 1,000 salaried sales vacancies in 1947? Previous experience unnecessary with our 25 years' specialised experience to aid you. Send today for free details. Wallace Attwood College, Dept. 84, Attwood House, Finchley Rd., London, N.W.3.

## REFERENCE LIBRARY IN TWO VOLUMES

200 pages of formulæ for two guineas (postage extra)

### PHARMACEUTICAL FORMULAS, Vol. I

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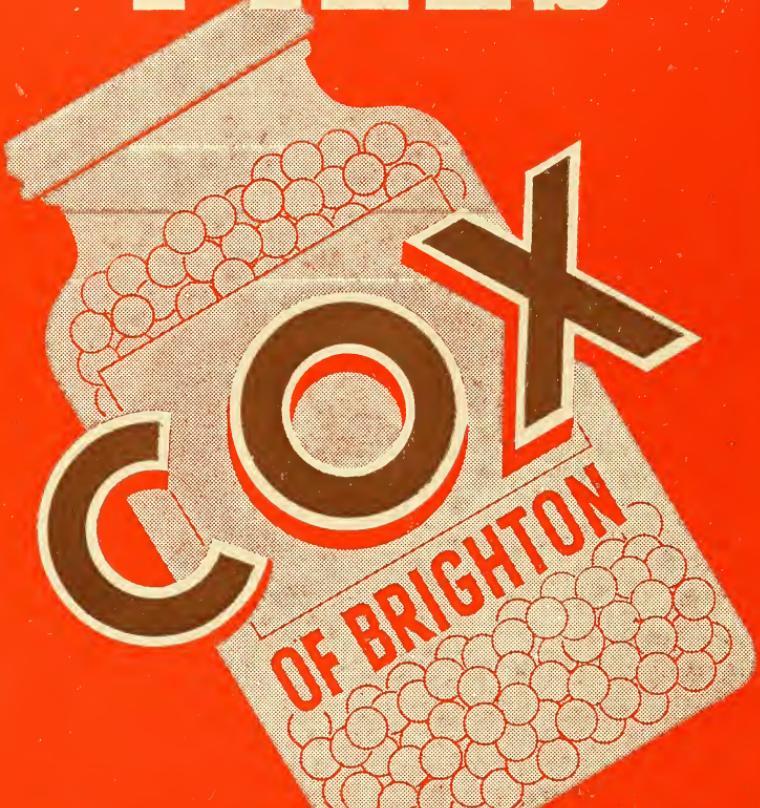
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